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MISCELLANEOUS PUBLICATION No. 60

Issued November, 1929

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LIST OF

AVAILABLE PUBLICATIONS

OF THE
UNITED STATES
DEPARTMENT OF AGRICULTURE

JUNE 1, 1929

—
*Arranged Alphabetically
by Subjects*
—

Revised
editions
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separately.

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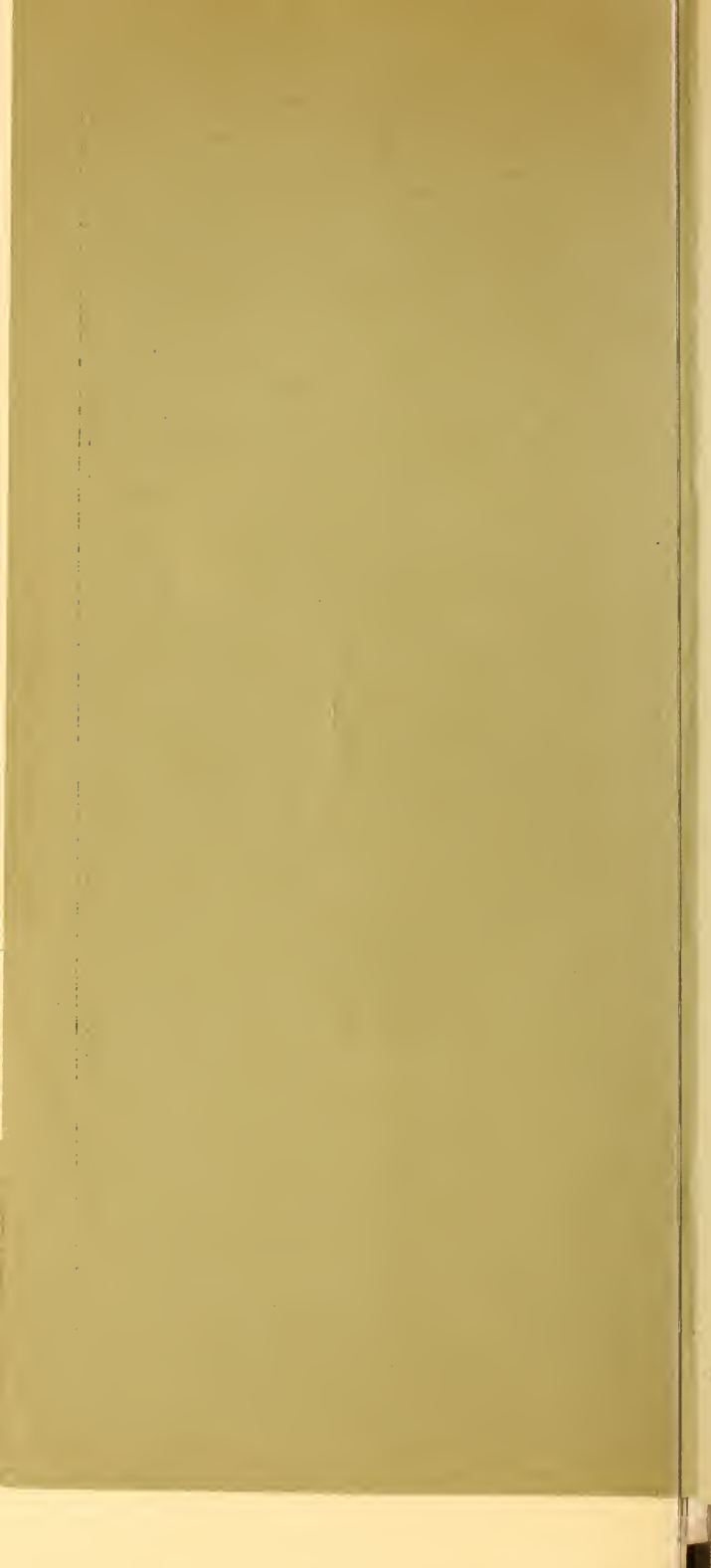
JOHN O. RILEY

In charge, Miscellaneous Distribution Section
Division of Publications
Office of Information



UNITED STATES
DEPARTMENT OF AGRICULTURE
WASHINGTON, D. C.

1929



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UNITED STATES
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LIST OF AVAILABLE PUBLICATIONS OF THE UNITED STATES DEPARTMENT OF AGRICULTURE, JUNE 1, 1929

INTRODUCTION

This pamphlet contains a list, alphabetically arranged and classified by subjects, of the available publications of the United States Department of Agriculture, together with a description of the nature and scope of the different series and of the various periodicals.

Instructions to be followed in ordering publications, and rules governing the distribution are also given.

RULES GOVERNING THE DISTRIBUTION OF DEPARTMENT PUBLICATIONS

Owing to the limited editions, it is not possible to have at all times in the department stock, a supply of every publication issued. It has therefore been found necessary, except in special cases, to restrict the number furnished free in reply to individual requests to not more than 10 publications.

Four-fifths of the publications of the series known as farmers' bulletins are allotted to Members of Congress, for such distribution as they may direct. Therefore, when publications of this class are desired in quantities, it is often possible to obtain them free by applying to a United States Senator or Representative. Also by a provision in the law governing the printing and distribution of Government publications, the Superintendent of Documents, Government Printing Office, is empowered to have printed for sale only, any publication for which there is a demand that can not be filled by the department issuing it. This department does not sell publications. Hence when sale publications are wanted the request and the remittance should be addressed to the Superintendent of Documents, Government Printing Office, and not to the department.

The publications herein designated by a star (*) can be obtained by purchase only. Remittance should be made in the form of a postal money order, express money order, or New York draft. Currency is sent at the sender's risk. For delivery to foreign countries add postage amounting to one-third of the total cost.

INSTRUCTIONS FOR REQUESTING AND ORDERING PUBLICATIONS

REQUESTS FOR FREE PUBLICATIONS

Address your request to the Office of Information, Department of Agriculture, Washington, D. C.

Be sure to write name and address plainly and to include street and number or rural route number, as the case may be.

Indicate by both number and title the publication you desire.

If you do not find bulletins on the subject in which you are interested listed herein, write to the department for information.

Do not send money or stamps to the department in payment for publications or information.

ORDERS FOR PUBLICATIONS FOR SALE ONLY

Address your order, inclosing the proper remittance, to the Superintendent of Documents, Government Printing Office, Washington, D. C. Remittances should be made in the form of a postal money order, express money order, or New York draft. Do not send postage stamps or foreign money. Currency is sent only at the sender's risk.

No charge is made for postage on publications forwarded to points in the United States and its possessions, or to Canada, Cuba, Mexico, Panama Canal Zone, and the Republic of Panama. For delivery to other foreign countries add for postage one-third of the advertised price.

Do not return this list in requesting or ordering publications, but write a list of those you desire when you send your letter.

SPECIAL.—It is earnestly requested that when ordering more than one publication, the correspondent arrange his list so that numbers designating the bulletins wanted will appear in consecutive order. This will greatly expedite the handling of the request.

NATURE AND SCOPE OF THE DIFFERENT SERIES

The various series of publications issued by the department are here listed in alphabetical order.

CIRCULARS

The circular series carries semitechnical material of a somewhat informal and general nature. In the Technical Bulletin series is published the more technical material. The circular series was formerly known as the department circular series, which ended with No. 425.

FARMERS' BULLETINS

Farmers' bulletins cover a wide range of subject matter and are of interest to a great many groups of persons. They are written in popular language easily understood by the layman.

The distribution of four-fifths of all farmers' bulletins is in the hands of Members of Congress, and only one-fifth are assigned to the United States Department of Agriculture for distribution. Requests

may be made direct to the Senator or Representative from your district or to the Department of Agriculture.

INVENTORY OF SEEDS AND PLANTS IMPORTED

This series is a record of new or little-known seeds and plants procured mostly from abroad for the use of the department, State experiment stations, and for distribution to experimenters in appropriate locations throughout the United States and its possessions. These publications are intended for distribution to the agricultural experiment stations and to the more important private cooperators. There are four issues a year, each covering a 3-month period.

LEAFLETS

A new series of publications called "Leaflets" has been started which carries popular material of the same general character as the farmers' bulletin series, except that the leaflets are confined to specific practical directions and recommendations, remedies, and methods. They are brief and concise, written in informal, popular style, and limited to eight pages in length. Much of the material now being published in farmers' bulletins will be condensed and published in this form.

MISCELLANEOUS PUBLICATIONS

Miscellaneous publications include those publications of a miscellaneous nature which do not fall within any of the other series of the department. They were formerly called the miscellaneous circular series, which ended with No. 110.

NORTH AMERICAN FAUNA

This is a technical series of the Bureau of Biological Survey, devoted principally to revisions of general of mammals and to biological surveys of States and other major areas. These publications are of interest chiefly to professional biologists.

SOIL SURVEYS

Soil survey reports consist of two parts: (1) A soil map in colors, showing the extent and distribution of the different soils in the area covered by the survey; (2) a printed report, containing brief descriptions of the area, its climate and agriculture, and detailed description of the soils.

STATISTICAL BULLETINS

Statistical bulletins consist of tables giving statistics relating to one or more closely related agricultural commodities. They also include, in so far as possible, statistics of production, movement from the farm, receipts at principal markets, reshipments, farm and market prices, exports and imports, production in foreign countries, and foreign-market prices. They are of interest to persons actually engaged in agricultural work, particularly marketing, or any business affected by agricultural production and marketing.

TECHNICAL BULLETINS

Results of the scientific and research work of the United States Department of Agriculture are printed in the technical bulletin series, which is intended for distribution chiefly to scientists and subject-matter specialists. In most cases a comparatively small edition is printed, and only a limited number is available for free distribution. Formerly these publications were called the department bulletin series, which ended with No. 1500.

YEARBOOK

The Yearbook of the department contains a general report of the operations of the department during the preceding calendar year, and articles of special interest and instruction to the farmers of the country. Selected articles in the Yearbook are reprinted in separate form. Available articles are listed in the subject list of publications.

PERIODICAL PUBLICATIONS

The following is a brief description of each periodical issued by the United States Department of Agriculture. The free mailing list is limited to not more than 2,000 addresses, outside of its employees and cooperators, for each periodical.

If an individual is engaged in work along agricultural lines and desires to be listed to receive any of these series, it will be necessary for him to furnish a description of nature and scope of the work with his application. The department will then notify him whether or not it can comply with the request.

The Superintendent of Documents, Government Printing Office, Washington, D. C., maintains a subscription list for all periodical publications, and in case a person can not be placed on the free list, he can, by sending the necessary remittance to that official, be placed on the subscription list.

AGRICULTURAL SITUATION

The Agricultural Situation, a 24-page bulletin issued monthly by the Bureau of Agricultural Economics, contains a brief general summary of current agricultural conditions, including pertinent statistics relating to production, movement, consumption, and prices of the important farm products. Its general purpose is to furnish extension workers and others with a very concise picture of economic conditions in agriculture from month to month. Free distribution is limited to department employees, State agricultural college workers, cooperators, libraries, and the press. 25¢ a year, domestic; 40¢ a year, foreign.

CLIMATOLOGICAL DATA

Climatological Data contains complete weather statistics from 42 separate sections, corresponding, as a rule, to a State, and is issued monthly, with an annual summary. One section, 5¢ a month, 50¢ a year. Forty-two sections, 35¢ a month, \$4 a year, including annual summary. Annual summary for the 42 sections, 50¢.

CLIP SHEET

The Clip Sheet is made up of short, interesting stories concerning the work of the United States Department of Agriculture and the application of new ideas and discoveries in the field of agriculture. From 8 to 10 stories, varying from fillers of a few lines to articles of 200 to 300 words, are included in each weekly issue. Free distribution to newspapers and other interested publications and writers. (No subscription list.)

CROPS AND MARKETS

Crops and Markets contains statistics concerning crops and livestock estimates and market information. It contains reports on supplies, stocks, commercial movements, condition and prices of agricultural products covered in the work of marketing and crop estimating, and studies of prices and demand both foreign and domestic. It is of particular interest to economists, statisticians, and persons whose business is affected by agricultural production and marketing. Free distribution is restricted to collaborators with the department. Issued monthly. 60¢ a year, domestic; 85¢ a year, foreign.

EXPERIMENT STATION RECORD

The Experiment Station Record is a technical review of the world's scientific literature pertaining to agriculture. It is issued in two volumes a year of 10 numbers each, and each volume contains about 3,500 abstracts of current research in the various fields of agriculture, together with brief notes on the progress of agricultural education and research and monthly editorials dealing with some phase of its advancement.

The Record is particularly designed for the use of research workers, teachers, extension specialists, and others desiring to keep abreast of the new information in the various fields of agriculture, and as a work of reference for ascertaining the status of research in these fields since it began publication in 1889. Free distribution is restricted mainly to workers in agricultural colleges and experiment stations and similar institutions, libraries, and exchanges. 10¢ a copy; 75¢ a volume, domestic; \$1.25 a volume, foreign.

FOREST WORKER

The Forest Worker, a bimonthly magazine of 32 pages, is published in the interest of an interchange of information and ideas among State forestry organizations, extension foresters, forest schools, forestry associations, the United States Forest Service, and all organizations and individuals interested in forestry. It is devoted especially to news of State forestry work, forestry education and extension, and private forestry. It presents also news of the work of the Forest Service and of developments in the general field of forestry both in the United States and in foreign countries, and notices and reviews of books, bulletins, and magazine articles on forestry and allied subjects. Distribution is free to certain Government officials and employees, State forestry and conservation officials, extension directors, forest schools, and forestry associations. 5¢ a copy, 25¢ a year, domestic; 7¢ a copy, 35¢ a year, foreign.

JOURNAL OF AGRICULTURAL RESEARCH

The Journal of Agricultural Research is a semi-monthly publication containing articles on technical agricultural research carried on by the United States Department of Agriculture or the State experiment stations, or both cooperatively. It is therefore of primary interest only to agricultural scientists and advanced students. Free distribution of the Journal is limited to certain libraries and to institutions or departments doing research work. 20¢ a copy, \$4 a year, domestic; \$5 a year, foreign.

Each article in the Journal is reprinted as a "separate." These reprints or separates are distributed free to those desiring them as long as the limited supply lasts. Anyone interested can have his name placed on a mailing list to receive notice of the issuance of articles on the subject in which he is interested. Requests to be placed on this list should specify the subjects concerning which it is desired to keep informed.

MONTHLY LIST OF PUBLICATIONS

This list is issued approximately on the tenth day of each month, and gives the titles and description of each publication issued during the preceding month. Anyone so desiring will be listed to receive it as issued free of charge.

MONTHLY WEATHER REVIEW

The Monthly Weather Review contains contributions from the research staff of the Weather Bureau and special contributions of a general character on meteorology and climatology; also climatological data for Weather Bureau stations. 15¢ a copy; \$1.50 a year, domestic; \$2.25 a year, foreign.

OFFICIAL RECORD

The Official Record contains official orders and miscellaneous information concerning the activities of the department, and such other matter as should be brought to the attention of employees and others who have to do with the department's work. Issued weekly. 50¢ a year, domestic; \$1.10 a year, foreign.

PUBLIC ROADS

Public Roads is a monthly periodical dealing with highway research. The results of investigations relating to the physical and economic problems of road building conducted by the Bureau of Public Roads and contributors outside of the bureau are made available to road builders through this medium. Free distribution is restricted to State and county officials actually engaged in planning or constructing public highways, instructors in highway engineering, and periodicals upon an exchange basis. 10¢ a copy, \$1 a year, domestic; \$1.50 a year, foreign.

SNOW AND ICE BULLETIN

The Snow and Ice Bulletin gives synopsis of snowfall and ice in United States, showing areas covered by snow, depth of snow, thickness of ice in rivers, etc. Of value to those interested in winter-wheat crop, ice dealers, and to manufacturers of articles, the sale of

which is affected by presence or absence of snow and ice. Issued weekly for 18 weeks during winter season. 50¢ a season.

WEEKLY WEATHER AND CROP BULLETIN

The Weekly Weather and Crop Bulletin gives detailed weather conditions of the preceding week and their effect on the development of crops and farm operations; shows variation of temperature and rainfall from normal week, total rainfall for the season in comparison with normal, and discusses amount of sunshine and cloudiness. 50¢ a year.

SERVICE AND REGULATORY ANNOUNCEMENTS

Service and Regulatory Announcements contain such notices of judgment, decisions, and other information needed in the enforcement of regulatory acts. They are issued as necessary by the Bureau of Agricultural Economics, the Bureau of Animal Industry, the Bureau of Biological Survey, the Bureau of Dairy Industry, the Bureau of Plant Industry, the Plant Quarantine and Control Administration, and the Food, Drug, and Insecticide Administration. Free distribution is limited to public officials whose duties make it necessary for them to have such information, to journals especially concerned, and to manufacturers and firms whose business is affected by the announcements. The Bureau of Animal Industry issues one announcement each month, and the Superintendent of Documents carries a subscription list at 25¢ a year domestic and 40¢ a year foreign. Other bureaus issue announcements at irregular intervals; the price for each issue is 5¢ a copy.

SUBJECT LIST

AGRICULTURAL INSTRUCTION, BUDGETING, AND ACCOUNTING

Farmers' Bulletins:

- 572 F. System of farm cost accounting. 5¢.
- 752 F. Diary for farm accounts. 5¢.
- 1066 F. Determining the age of cattle by the teeth. 5¢.
- 1068 F. Judging beef cattle. 5¢.
- 1088 F. Selecting a farm. 5¢.
- 1139 F. Analyzing the farm business. 5¢.
- 1182 F. Farm inventories.
- 1199 F. Judging sheep. 5¢.
- 1455 F. Fitting, showing, and judging hogs. 5¢.
- 1564 F. Farm budgeting. 5¢.

Department Bulletins:

- *258 D. Lessons in elementary agriculture for Alabama schools by months. 5¢.
- *281 D. Correlating agriculture with public-school subjects in Northern States. 10¢.
- *355 D. Extension course in soils, for self-instructed classes in movable schools of agriculture. 10¢.
- *434 D. Judging dairy cows as subject of instruction in secondary schools. 5¢.
- *504 D. Theory of correlation as applied to farm-survey data on fattening baby beef. 5¢.
- *540 D. First-year course in home economics for southern agricultural schools. 10¢.
- *559 D. Accounting records for country creameries. 5¢.
- *592 D. Courses in secondary agriculture for southern schools, third and fourth years. 5¢.
- *784 D. Lessons on potatoes for elementary rural schools. 5¢.
- 811 D. System of bookkeeping for grain elevators. 20¢.
- 865 D. Classification of ledger accounts for creameries. 10¢.

Publications designated by a star (*) are not for free distribution.

Department Circulars:

- *67 DC. How teachers may use Farmers' Bulletin 602, Clean milk, production and handling. 5¢.
- 68 DC. How teachers may use publications on the control of diseases and insect enemies of the home garden. 5¢.
- 107 DC. System of field and office records for county extension workers. 5¢.
- *155 DC. How teachers may use Farmers' Bulletin 1087, Beautifying the farmstead. 5¢.
- *156 DC. How teachers may use Farmers' Bulletin 1175, Better seed corn. 5¢.
- 157 DC. How teachers may use Farmers' Bulletin 1148, Cowpeas, culture and varieties. 5¢.
- 158 DC. How teachers may use Farmers' Bulletin 1125, Foreage for the Cotton Belt. 5¢.
- 250 DC. Educational milk-for-health campaigns. 10¢.

Miscellaneous Circulars:

- 3 MC. Relation of agricultural education to farm organizations. 5¢.
- 21 MC. Posters prepared by school children in milk-for-health programs. 5¢.
- *29 MC. Demonstration courses in wood utilization. 5¢.
- 90 MC. Score cards for judging clothing, selection and construction. 5¢.

Miscellaneous Publications:

- 3 MP. Editorial policy regarding Journal of Agricultural Research. 5¢.

Yearbook Separates:

- *607 Y. Agriculture in public high schools. 5¢.
- *635 Y. Story of the thermometer and its uses in agriculture. 5¢.
- *735 Y. Value of records of the farmer. 5¢.
- *736 Y. Teamwork between the farmer and his agent. 5¢.
- *832 Y. Science seeks the farmer. 5¢.

UNITED STATES RADIO FARM SCHOOL LESSONS

(A group of printed lessons prepared by specialists of the Department, which supplement the United States Radio Farm School talks broadcast by various stations.)

R. F. S. Dairy Short Courses:

- No. 1. Dairy Herd Improvement.
- No. 2. Better Milk Production.
- No. 3. Feeding Dairy Cattle.
- No. 4. Dairy Herd Management.
- No. 5. Engineering, Barns and Equipment.

R. F. S. Livestock Short Courses:

- No. 1. Livestock Breeding.
- No. 2. Livestock Feeding.
- No. 3. Animal Health and Sanitation.

R. F. S. Poultry Short Courses:

- No. 1. Fall Poultry Management Problem.
- No. 2. Poultry Houses.
- No. 3. Management of Poultry Breeding Stock.
- No. 4. Exhibiting Fowls; Lice and Mites.
- No. 5. Incubation.
- No. 6. Common Poultry Diseases and Worms.

R. F. S. Farm Economics Series:

- No. 1. The Business of Farming.
- No. 2. Marketing.
- No. 3. Cooperative Marketing.

ALFALFA**Farmers' Bulletins:**

- 944 F. Garden webworm in alfalfa fields. 5¢.
- 982 F. Green clover worm in alfalfa fields. 5¢.
- 1094 F. Alfalfa caterpillar. 5¢.
- 1229 F. Utilization of alfalfa. 5¢.
- 1283 F. How to grow alfalfa. 5¢.
- 1467 F. Commercial varieties of alfalfa. 5¢.
- 1528 F. Control of alfalfa weevil. 5¢.
- 1539 F. High-grade alfalfa hay: Methods of producing, baling, and loading for market. 5¢.

Department Bulletins:

- *889 D. Clover stem-borer as an alfalfa pest. 5¢.
- *1087 D. Alfalfa root studies. 10¢.
- 1418 D. Fertilizer experiments with alfalfa conducted at United States Yuma Field Station, Bard, Calif., 1919 to 1925. 5¢.
- 1424 D. Comparative shrinkage in weight of alfalfa cured with leaves attached and removed. 5¢.

Publications designated by a star (*) are not for free distribution.

Department Circulars:

- *93 DC. Development of the Peruvian alfalfa industry in United States. 5¢.
- 297 DC. Eelworm disease; a menace to alfalfa in America. 5¢.
- *301 DC. Introduction of parasites of alfalfa weevil into United States. 5¢.
- *425. DC. Some observations on some alfalfa root troubles. 5¢.

Circulars:

- 33 C. Bacterial wilt and winter injury of alfalfa. 5¢

ANIMAL BREEDING**Farmers' Bulletins:**

- 1167 F. Essentials of animal breeding. 5¢.

Department Bulletins:

- 905 D. Principles of livestock breeding. 15¢.
- *1090 D. Effects of inbreeding and crossbreeding in guinea pigs: 1. Decline in vigor; 2. Differentiation among inbred families. 15¢.
- *1121 D. Effects of inbreeding and crossbreeding on guinea pigs: 3. Crosses between highly inbred families. 15¢.
- 1372 D. Transmitting ability of 23 Holstein Friesian sires. 5¢.

Technical Bulletins:

- 103 T. The persistence of differentiation among inbred families of Guinea pigs. 10¢.

Department Circulars:

- 368 DC. Better cows from better sires, study of cowtesting association records of dams and their daughters. 5¢.

Miscellaneous Publications:

- 34 MP. United States Animal Husbandry Experiment Farm, Beltsville, Md. 10¢.

Yearbook Separates:

- 985 Y. Bulls bred pure replace scrubs in more counties. 5¢.
- 990 Y. Animal husbandry cooperation yields results in research. 5¢.

APPLES**Farmers' Bulletins:**

- 662 F. Apple-tree tent caterpillar. 5¢.
- 675 F. Roundheaded apple-tree borer. 5¢.
- 938 F. Apple bitter rot and its control. 5¢.
- 1065 F. Flat-headed apple-tree borer. 5¢.
- 1080 F. Preparation of barreled apples for market. 5¢.
- 1120 F. Control of apple powdery mildew. 5¢.
- 1160 F. Diseases of apples in storage. 5¢.
- 1204 F. Northwestern apple-packing houses. 5¢.
- 1270 F. Important apple insects. 15¢.
- 1284 F. Apple-orchard renovation. 5¢.
- 1360 F. Apple growing east of the Mississippi. 10¢.
- 1380 F. Apple scald and its control. 5¢.
- 1457 F. Packing apples in boxes. 5¢.
- 1478 F. Apple scab. 5¢.
- 1479 F. Apple blotch. 5¢.

Department Bulletins:

- *500 D. Cost of producing apples in western Colorado, detailed study made in 1914-15. 10¢.
- *534 D. Apple blotch and its control. 5¢.
- *587 D. Handling and storage of apples in Pacific Northwest. 15¢.
- *684 D. Sources of apple bitter rot infections. 10¢.
- *712 D. Apple powdery mildew and its control in arid regions of the Pacific Northwest. 10¢.
- *851 D. Cost of producing apples in five counties in western New York, 1910-1915. 10¢.
- *886 D. Spotted apple-tree borer. 5¢.
- *1003 D. Accounting records for sampling apples by weight. 5¢.
- *1104 D. Internal browning of the yellow Newtown apple. 10¢.
- 1166 D. Apple by-products as stock foods. 5¢.
- *1253 D. Diseases of apples on the market. 5¢.
- 1406 D. Ripening, storage, and handling of apples. 20¢.
- 1415 D. Marketing western boxed apples. 20¢.
- *1416 D. Marketing barreled apples. 20¢.
- 1448 D. Picking maturity of apples in relation to storage. 5¢.
- 1455 D. Incomes from farming and cost of apple production in Shenandoah Valley and Frederick Co., Va. 10¢.

Technical Bulletins:

- 54 T. Factors influencing yield of apples in Cumberland-Shenandoah region of Pennsylvania, Virginia, and West Virginia. 10¢.
- 66 T. Apple maggot. 15¢.

Department Circulars:

- 376 DC. Method for control of crown gall in apple nursery. 5¢.
- *396 DC. Control of apple scald with shredded oiled paper. 5¢.
- 413 DC. Extent and causes of rejections of boxed apples from State of Washington, seasons 1922 to 1925. 5¢.

Publications designated by a star (*) are not for free distribution.

Yearbook Separates:

- 941 Y. Apple trees attacked by cedar rust. 5¢.
 *1017 Y. Apples and pears are often injured when boxed in Douglas fir. 5¢.

BEANS**Farmers' Bulletins:**

- 289 F. Beans. 5¢.
 1407 F. Mexican bean beetle in the East. 5¢.
 1509 F. Bean growing: E. Wash., E. Oregon, N. Idaho. 5¢.

Department Bulletins:

- *843 D. The bean ladybird. 10¢.
 *1194 D. Chemical and structural study of mesquite, carob, and honey locust beans. 5¢.

Department Circulars:

- *92 DC. The jack bean. 5¢.

Miscellaneous Publications:

- 16 MP. Save beans (from deterioration in transit). 5¢.

BEES AND HONEY**Farmers' Bulletins:**

- 447 F. Bees. 5¢.
 653 F. Honey and its uses in the home. 5¢.
 695 F. Outdoor wintering of bees. 5¢.
 961 F. Transferring bees to modern hives. 5¢.
 975 F. Control of European foulbrood. 5¢.
 1012 F. Preparation of bees for outdoor wintering. 5¢.
 1014 F. Wintering bees in cellars. 5¢.
 1039 F. Comb-honey production. 5¢.
 1084 F. American foulbrood control. 5¢.
 1198 F. Swarm control. 5¢.
 1215 F. Beekeeping in the clover region. 5¢.
 1216 F. Beekeeping in the buckwheat region. 5¢.
 1222 F. Beekeeping in the tulip-tree region. 5¢.

Department Bulletins:

- 93 D. The temperature of the honeybee cluster in winter. 5¢.
 *804 D. Study of behavior of bees in colonies affected by European foulbrood. 5¢.
 *809 D. American foulbrood. 15¢.
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Department Circulars:

- 218 DC. Occurrence of diseases of adult bees, I. 5¢.
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- *960 D. Relation of water raking to keeping quality of cranberries. 5¢.
- 974 D. Directions for blueberry culture, 1921. 30¢.
- *1032 D. The blackhead fireworm of cranberry on Pacific coast. 15¢.
- 1434 D. Cranberry disease investigations on Pacific coast. 5¢.

Department Circulars:

- 227 DC. Eastern blue-stem of black raspberry. 5¢.
- *309 DC. Spraying strawberries for the control of fruit rots. 5¢.
- 320 DC. The Van Fleet raspberry, new hybrid variety. 5¢.
- 402 DC. Diseases of strawberries on the market. 5¢.

Yearbook Separates:

- 995 Y. Dewberry of Young variety has excellent qualities. 5¢.
- 996 Y. Raspberry of Van Fleet variety thrives in South. 5¢.
- 1018 Y. Cranberries used in trial forecasts as to keeping quality. 5¢.

BIBLIOGRAPHIES**Department Bulletins:**

- *1199 D. List of bulletins of agricultural experiment stations in United States from their establishment to the end of 1920. 20¢.
- Supplement 2. List for calendar years 1923 and 1924. 10¢.
- Supplement 3. List for calendar years 1925 and 1926. 10¢.
- 1314 D. Bibliography relating to soil alkalies. 10¢.
- 1330 D. Abbreviations employed in Experiment station record for titles of periodicals. 20¢.

Department Circulars:

- *187 DC. List of serials currently received in library of Department of Agriculture, Jan. 1, 1922. 25¢.

Miscellaneous Circulars:

- 35 MC. Bibliography on marketing of agricultural products. 10¢.
- 46 MC. Bibliography of the European corn borer. 10¢.
- *103 MC. Publications of Department of Agriculture, February 1, 1927. 15¢.

Miscellaneous Publications:

- 9 MP. List of publications of Department of Agriculture from January, 1901, to December, 1925, compiled by comparison with originals. 25¢.

BIRDS**Farmers' Bulletins:**

- 493 F. English sparrow as a pest. 5¢.
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Department Bulletins:

- 128 D. Distribution and migration of North American rails and their allies. 10¢.
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Technical Bulletins:

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Circulars:

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- 74 MC. Graing up beef cattle at Sni-A-Bar Farms. 10¢.

Yearbook Separates:

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- Your Future Herd. (D. D. E. 10).

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Miscellaneous Publications:

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Yearbook Separates:

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Miscellaneous:

- *Special report on diseases of cattle. 1924. \$1.

CITRUS FRUITS

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Technical Bulletins:

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 13 T. Practices and costs of cotton-gin operation in north-central Texas, 1924-25. 15¢.
 50 T. Factors affecting price of cotton. 15¢.
 69 T. Marketing American cotton in England. 20¢.
 72 T. Irrigation of cotton. 10¢.
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 91 T. Leaf-temperatures of cotton and their relation to transpiration varietal differences, and yields. 10¢.

Department Circulars:

- 175 DC. Linters. 5¢.
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 *278 DC. Commercial classification of American cotton, with reference to standards for grade, color and staple. 10¢.
 *357 DC. Production of Acala cotton in San Joaquin Valley of California. 10¢.
 361 DC. Cotton hopper, or so-called cotton flea. 5¢.
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Circulars:

- 2 C. Acala cotton, superior upland variety from southern Mexico. 20¢.
 47 C. Standardized cotton tare in Egypt. 5¢.
 67 C. A prolonged saprophytic stage of the cotton root-rot fungus. 5¢.

Secretary's Office Circulars:

- 159 SC. Regulations of Secretary of Agriculture under United States cotton futures act, effective Aug. 1, 1922. 5¢.

Miscellaneous Circulars:

- 43 MC. Lessons on cotton for elementary schools. 10¢.

Miscellaneous Publications:

- 10 MP. Establishment of standard grades for American cotton linters. 5¢.
 35 M. P. Cotton or weevils. 10¢.

Yearbook Separates:

- *605 Y. Improved methods of handling and marketing cotton. 5¢.
 *877 Y. The cotton situation. 15¢.
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- 342 D. Present status of pasteurization of milk. 5¢.
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*139 D. C. The Government exhibit at the 1920 National Dairy Show. 5c.

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12 C. Dairy work at Woodward Field Station, Woodward, Okla., 1921 to 1925. 10c.

Miscellaneous Publications:

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Leaflets:

3 L. Improved sanitation in milk production. 5c.

19 L. Improving dairy herds. 5c.

26 L. Care of the dairy calf. 5c.

Yearbook Separates:

*707 Y. Experiment in community dairying. 5c.

879 Y. The dairy industry. 15c.

Miscellaneous:

Proceedings of the World's Dairy Congress. 2 vols. clo. 1923. \$2.50.

DAIRY PRODUCTS**Farmers' Bulletins:**

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576 D. Manufacture of cottage cheese in creameries and milk plants. 5c.

608 D. Varieties of cheese, descriptions and analyses. 10c.

661 D. Manufacture of casein from buttermilk or skim milk. 5c.

*919 D. Unit requirement for producing milk in western Washington. 5c.

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*940 D. Sporogenes test as an index of the contamination of milk. 15c.

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Technical Bulletins:

*15 T. Comparison of temperature and bacterial count of milk and foam during certain stages of pasteurization process. 5c.

Department Circulars:

70 DC. Trend of the butter industry in the United States and other countries. 5c.

*71 DC. Trend of the cheese industry in the United States and other countries. 5c.

129 DC. Milk for the family. 5c.

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Circulars:

16 C. Some economic aspects of marketing of milk and cream in New England. 20c.

Secretaries' Office Circulars:

95 SC. Errors in weight of print butter, their causes and prevention. 5c.

157 SC. Handbook for use in inspection of whole-milk American cheese under food products inspection law. 5c.

Leaflets:

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Yearbook Separates:

*737 Y. Cheesemaking brings prosperity to farmers in southern mountains. 5c.

*744 Y. How the dairy cow brought prosperity in wake of boll weevil. 5c.

939 Y. Dairy by-products and methods of utilizing them. 5c.

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Miscellaneous:

Chemical Testing of Milk and Cream. 10c.

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Department Bulletins:

- *166 D. Ophthalmic mallein for diagnosis of glanders. 5¢.
- 662 D. Vesicular stomatitis of horses and cattle. 5¢.
- *674 D. Hemorrhagic septicemia. 5¢.
- 1449 D. Tumors of domestic animals. 10¢.

Technical Bulletins:

- *76 T. B. Report of Foot-and Mouth-Disease Commission of Department of Agriculture. 25¢.

Department Circulars:

- *54 DC. Tuberculosis eradication under accredited-herd plan: Herd list 2, List of herds officially accredited as free from tuberculosis and of herds that have passed successfully one test with view to certification. Revised to Apr. 1, 1919. 10¢.
- *142 DC. Tuberculosis eradication under the accredited-herd plan: Herd list 3. 10¢.
- *143 DC. Tuberculosis eradication under the accredited-herd plan: Supplement 1 to Herd list 3. 10¢.
- *144 DC. Tuberculosis eradication under the accredited-herd plan: Supplement 2 to Herd list 3. 10¢.
- *180 DC. Alkali disease of livestock in Pecos Valley. 5¢.
- 249 DC. Tuberculin testing of livestock. 10¢.
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- 11 C. Comparative values of types of anti-hog-cholera serum. 5¢.
- 32 C. Regional lymph glands of food animals. 10¢.

Leaflets:

- 34 L. Trichinosis: A disease caused by eating raw pork. 5¢.

Yearbook Separates:

- *783 Y. Some results of Federal quarantine against foreign livestock diseases. 5¢.
- 798 Y. Practical points in hog cholera control. 5¢.
- *802 Y. Progress in eradicating contagious animal diseases. 5¢.
- *966 Y. Experiment station work on animal-disease control. 5¢.

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- 1053 F. Control of cherry leaf spot. 5¢.
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Department Bulletins:

- *52 D. Anthracnose of mango in Florida. 10¢.
- *363 D. Brown rot of prunes and cherries in Pacific Northwest. 5¢.
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- 1474 D. Citrus melanose and its control. 20¢.

DISEASES, GRAIN AND FORAGE CROPS*(See also under name of crop)***Farmers' Bulletins:**

- 1540 F. Smuts of wheat and rye and their control. 5¢.
- 1544 F. Common barberry and black stem rust. 5¢.

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- *1210 D. Summary of literature on bunt, or stinking smut, of wheat. 10¢.
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- 1383 D. Single-bath hot-water and steam treatments of seed wheat for control of loose smut. 5¢.

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- *755 Y. Cereal diseases and national food supply. 5¢.
- *961 Y. Stem rust in many varieties attacks grain. 5¢.
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Department Bulletins:

- *89 D. Death of chestnuts and oaks due to *Armillaria mellea*. 5¢.
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- *490 D. Preliminary report on occurrence of western red rot in *Pinus ponderosa*. 5¢.
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- *1366 D. Check list of diseases of economic plants in United States. 15¢.
- 1417 D. *Ozonium* root rot. 15¢.
- 1461 D. Control of cucumber mosaic by eradication of wild host plants. 10¢.

Technical Bulletins:

- 87 T. White-pine blister rust, comparison of European with North American conditions. 15¢.

Department Circulars:

- *226 DC. White-pine blister rust in western United States. 10¢.
- 234 DC. Bacterial spot of cucumbers. 5¢.
- 321 DC. Control of cucumber mosaic in the greenhouse. 5¢.
- *370 DC. Chestnut blight in southern Appalachians. 10¢.
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Miscellaneous Publications:

- 22 MP. Protect white pine from blister rust. 10¢.
- 23 MP. Protect western white pine and sugar pine from blister rust. 10¢.
- *27 MP. Black currant spreads white-pine blister rust. 5¢.

Yearbook Separates:

- *598 Y. Chestnut bark disease. 10¢.
- *796 Y. Black stem rust and barberry. 5¢.
- *929 Y. Diseases and pests of fruits and vegetables. 25¢.
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- *181 D. Report on methods and cost of reclaiming overflowed lands along Big Black River, Miss. 30¢.
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- *724 D. Drainage methods and foundations for county roads. 20¢.
- *1017 D. Report on drainage and prevention of overflow in the valley of the Red River of the North. 50¢.
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- *1173 D. Experiments in wheat production on the dry lands of western United States. 10¢.
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- *269 D. Farmers' institute work in United States in 1914, and notes on agricultural extension work in foreign countries. 5¢.
- 1384 D. Effectiveness of extension in reaching rural people. 5¢.

Technical Bulletins:

- 106 T. Extension methods and their relative effectiveness. 15¢.

Department Circulars:

- *30 DC. Organization of county for extension work, farm-bureau plan. 5¢.
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- *270 DC. Extension work in agricultural engineering, 1922. 5¢.
- *285 DC. Status and results of home demonstration work, Northern and Western States, 1921. 5¢.
- 308 DC. Extension program in range livestock, dairying, and human nutrition for Western States. 5¢.
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- 345 DC. Farm-forestry extension, early development, and status in 1923. 5¢.

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- *346 DC. Extension work with fruits, vegetables, and ornamentals, 1923. 5¢.
- 347 DC. Methods and results of cooperative extension work, 1923. 10¢.
- *348 DC. Boys' and girls' 4-H club work, 1923. 10¢.
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- 385 DC. How to prepare and display extension exhibits. 10¢.
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Circulars:

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Miscellaneous Circulars:

- 59 MC. County agricultural agent work under Smith-Lever Act, 1914-1924. 10¢.
- *72 MC. Decade of negro extension work, 1914-1924. 10¢.
- 77 MC. Boys' and girls' 4-H club work. 10¢.
- 78 MC. Use of motion pictures in agricultural extension work. 10¢.
- *85 MC. Boys' and girls' 4-H club work under Smith-Lever Act, 1914-1924. 15¢.
- 86 MC. Motion pictures of Department of Agriculture [list of films and how to obtain them]. 10¢.

Miscellaneous Publications:

- *8 MP. Review of 5 years of fact organization and State and regional program making in Western States, and report of 1927 extension conference. 5¢.
- *15 MP. History of agricultural extension work in United States, 1785-1923. Cloth, 75¢.
- 45 MP. Forestry Clubs for Young People. 5¢.

Yearbook Separates:

- *672 Y. How the whole county demonstrated. 5¢.
- 710 Y. Effect of home demonstration work on community and county in the South. 5¢.
- *833 Y. Home demonstration bears fruit in the South. 5¢.

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- *157 D. Tillage and rotation experiments at Nephi, Utah. 5¢.
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- *528 D. Seasonal distribution of farm labor in Chester County, Pa. 10¢.

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Department Bulletins—Continued.

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- *625 D. Cropping systems for moisture portions of eastern Washington and Oregon and northern Idaho. 5¢.
- 633 D. Factors of successful farming near Monett, Mo. 5¢.
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- *848 D. An economic study of small farms near Washington, D. C. 5¢.
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- 1211 D. Sources of supply and conditions of employment of harvest labor in wheat belt. 5¢.
- *1214 D. Family living in farm homes, economic study of 402 farm families in Livingston County, N. Y. 5¢.
- 1220 D. Farm labor in Massachusetts, 1921. 5¢.
- 1230 D. Conditions affecting demand for harvest labor in Wheat Belt. 10¢.
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- 1258 D. Farm organization and management in Clinton County, Ind., business analysis of 100 farms in Forest and Johnson Townships for 8 years, 1910 and 1913-1919. 10¢.
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- 1447 D. Cost of using horses, tractors, and combines on wheat farms in Sherman County, Oreg. 10¢.
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- 1466 D. Farmer's standard of living, a socio-economic study of 2886, white farm families in 11 States. 10¢.

Technical Bulletins:

- 102 T. Types of farming in North Dakota. 15¢.

Department Circulars:

- *83 DC. Testing farms in the South for efficiency in management. 5¢.
- 197 DC. The credit association as an agency for rural short-time credit. 5¢.
- 302 DC. Farm management extension, early development and status in 1922. 5¢.

Secretary's Office Circulars:

- *56 SC. Safe farming. 5¢.
- 57 SC. Influence of relative area in intertilled and other classes of crops on crop yield. 5¢.
- *121 SC. Handling the 1918 wheat harvest in Kansas. 5¢.
- *122 SC. Labor saving in livestock production. 5¢.

Miscellaneous Circulars:

- *32 MC. Practical farm economics. Cloth, 40¢.
- 106 MC. Emergency crops for flooded lands, Mississippi Valley. 5¢.
- *107 MC. Emergency methods for reconstitution of flooded sugar-cane districts in Louisiana. 5¢.

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Yearbook Separates:

- *613 Y. Directory for farmers. 5¢.
- 661 Y. Some outstanding factors in profitable farming. 5¢.
- 702 Y. Development and localization of truck crops in United States. 5¢.
- 764 Y. Cattle loans and the value to investors. 5¢.
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FARM ORGANIZATIONS, TENANCY, AND LABOR**Department Bulletins:**

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- 1277 D. Input as related to output in farm organization and cost-of-production studies. 10¢.
- *1292 D. Field and crop labor on Georgia farms, (coastal plain area). 5¢.
- 1295 D. Land settlement and colonization in Great Lakes States. 15¢.
- 1296 D. Study of farm organization in central Kansas. 15¢.
- 1322 D. Some economic aspects of farm ownership. 5¢.
- 1400 D. Factors affecting farmers' earnings in southeastern Pennsylvania. 15¢.
- 1404 D. Tenancy and ownership among negro farmers in Southampton County, Va. 5¢.
- 1432 D. Ownership of tenant farms in United States. 10¢.
- 1433 D. Ownership of tenant farms in North Central States. 10¢.

Technical Bulletins:

- 45 T. Study of ranch organization and methods of range-cattle production in northern Great Plains region. 20¢.
- *68 T. Ranch organization and methods of livestock production in the Southwest. 25¢.

Department Circulars:

- 351 DC. Centralized management of large corporate estate operated by tenants in the Wheat Belt. 10¢.
- 377 DC. Farm real estate situation, 1926. 5¢.
- 407 DC. Membership relations of cooperative associations, (cotton and tobacco). 5¢.

Circulars:

- 15 C. Farm real estate situation, 1926-1927. 10¢.
- 60 C. Farm real estate situation, 1927-28. 10¢.

Secretary's Office Circulars:

- *135 SC. Report of committee to consider subject of farm organization as one of the divisions of research work of proposed bureau of farm management and farm economics. 5¢.
- *138 SC. Report of committee on land economics. 5¢.
- *139 SC. Report of committee to consider subject of farm-life studies as one of the divisions of research work of proposed bureau of farm management and farm economics. 5¢.
- *142 SC. Suggestions regarding fall-sown crops, with notes on the livestock situation. 5¢.
- *153 SC. Cooperative relations in agricultural development; address by E. T. Meredith, Springfield, Mass., Oct. 20, 1920. 5¢.

Yearbook Separates:

- 772 Y. Thrashing ring in the Corn belt. 5¢.
- *773 Y. Livestock and reconstruction. 5¢.
- *897 Y. Farm ownership and tenancy. 15¢.

FATS, OILS, AND NAVAL STORES**Department Bulletins:**

- *182 D. Agricultural alcohol, studies on manufacture in Germany. 5¢.
- 442 D. Possibility of commercial production of lemon-grass oil in the United States. 5¢.
- *898 D. Turpentine, its sources, properties, uses, transportation, and marketing, with recommended specifications. 15¢.
- 904 D. Production and utilization of corn oil in United States. 5¢.
- 989 D. Pine-oil and pine distillate product emulsions, method of production, chemical properties, and disinfectant action. 5¢.
- 1010 D. Preparation of edible oil from crude corn oil. 5¢.
- *1054 D. Comparison of corn oils obtained by expeller and benzol extraction methods. 5¢.
- *1036 D. Coal-tar and water-gas tar creosotes, their properties and methods of testing. 20¢.
- 1471 D. Oil content of flaxseed, with comparisons of tests for determining oil content. 10¢.
- 1475 D. Production and utilization of fats, fatty oils, and waxes in United States. 10¢.

Technical Bulletins:

- 16 T. Methods of extracting volatile oils from plant material and the production of such oils in United States. 10¢.
- *71 T. Simple method for determining oil content of seeds and other oil-bearing materials. 5¢.

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Yearbook Separates:

- 691 Y. Some American vegetable food oils, their sources and methods of production. 5¢.
1013 Y. Safflower, oilseed crop, adapted to Northern Great Plains. 5¢.

FEEDS AND FEEDING**Farmers' Bulletins:**

- 724 F. Feeding of grain sorghums to livestock. 5¢.
972 F. How to use sorghum grain. 5¢.
1133 F. Feeding garbage to hogs. 5¢.
1179 F. Feeding cottonseed products to livestock. 5¢.
1504 F. Self-feeding versus hand-feeding sows and litters. 5¢.

Department Bulletins:

- *378 D. Fish meal, its uses as stock and poultry food. 5¢.
*470 D. Studies on digestibility of grain sorghums. 5¢.
*610 D. Fish meal as a feed for swine. 5¢.
*745 D. Chopped soapweed as emergency feed for cattle on southwestern ranges. 5¢.
1124 D. Marketing of mill feed. 5¢.
1166 D. Apple by-products as stock foods. 5¢.
1272 D. Value of various new feeds for dairy cows. 5¢.
1297 D. Effect of feeding cabbage and potatoes on flavor and odor of milk. 5¢.
1342 D. Effect of feeding green rye and green cowpeas on flavor and odor of milk. 5¢.

Technical Bulletins:

- *9 T. Effect of some succulent feeds on flavor and odor of milk. 5¢.
110 T. Correcting the inefficiency of peanuts for growth in pigs. 5¢.

Department Circulars:

- 379 DC. Use of salt in range management. 10¢.

Miscellaneous Circulars:

- 12 MC. Handbook for better feeding of livestock. 15¢.

Yearbook Separates:

- *105 Y. Needs and requirements of control of feeding stuffs. 5¢.
983 Y. Beef from grass and grain gains producers' favor. 5¢.
984 Y. Pasture problems in coastal plains region of south. 5¢.

FERTILIZERS**Farmers' Bulletins:**

- 921 F. Principle of liming of soils. 5¢.
1250 F. Green manuring. 5¢.
1496 F. Inoculation of legumes and nonlegumes with nitrogen-fixing and other bacteria. 5¢.
1549 F. Feeding cattle for beef. 5¢.

Department Bulletins:

- *61 D. Potash salts and other salines in Great Basin region. 15¢.
*572 D. Recovery of potash as a by-product in the cement industry. 5¢.
*1126 D. Effect of borax on growth and yield of crops. 15¢.
1179 D. Investigations of manufacture of phosphoric acid by volatilization process. 15¢.
*1191 D. Potash from kelp, early development and growth of giant kelp, *Macrocystis pyrifera*. 5¢.
1226 D. Recovery of potash as a by-product in blast-furnace industry. 5¢.
1280 D. Computation of fertilizer mixtures from concentrated materials. 5¢.
*1379 D. Electroculture. 10¢.
1413 D. Cocoa by-products and their utilization as fertilizer materials. 10¢.

Technical Bulletins:

- *75 T. Crop-plant stimulation with paper mulch. 10¢.

Department Circulars:

- *84 DC. Crop injury by borax in fertilizers. 10¢.
*252 DC. Preparation of peat composts. 5¢.
*257 DC. Composition of filter press (lime) cake [consisting largely of calcium carbonate]. 5¢.

Circulars:

- 77 C. Suggestions for paper mulch trials. 5¢.

Yearbook Separates:

- *717 Y. Importance of developing our national resources of potash. 5¢.
*728 Y. Fertilizers from industrial wastes. 5¢.
*803 Y. Atmospheric nitrogen for fertilizers. 5¢.
*814 Y. Home production of lime by the farmer. 5¢.

FIBER PLANTS**Department Bulletins:**

- *930 D. Production of binder twine fiber in the Philippine Islands. 5¢.
1278 D. Production of henequen fiber in Yucatan and Campeche. 5¢.

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Miscellaneous Circulars:

110 MC. Ramie, a fiber-yielding plant.

Yearbook Separates:

*628 Y. Hemp. 15¢.

*790 Y. Sisal and henequen as binder-twine fibers. 5¢.

FIRE HAZARDS AND DUST EXPLOSIONS**Farmers' Bulletins:**

904 F. Fire prevention and fire fighting on the farm. 5¢.

1512 F. Protection from lightning. 10¢.

1590 F. Fire-protective construction on the farm. 5¢.

Department Bulletins:

379 D. Dust explosions and fires in grain separators in Pacific Northwest. 10¢.

530 D. Organization and management of farmers' mutual fire insurance company. 5¢.

681 D. Grain-dust explosions, investigation in experimental attrition mill at Pennsylvania State College. 10¢.

*1294 D. Role of fire in California pine forests. 20¢.

1373 D. Dust control in grain elevators. 10¢.

Technical Bulletins:

74 T. Value of inert gas as preventive of dust explosions in grinding equipment. 5¢.

Department Circulars:

*98 DC. Installation of dust-collecting fans on threshing machines for prevention of explosions and fires and for grain cleaning. 5¢.

*134 DC. Livestock grazing as a factor in fire protection on the national forests. 10¢.

171 DC. Unprotected electric lights, fire and explosion hazard in dusty industries. 5¢.

*354 DC. Weather conditions and forest fires in California. 5¢.

*358 DC. Fire and the forest, California pine region. 5¢.

Circulars:

76 C. Fires in cotton gins and how to prevent them. 5¢.

Secretary's Office Circulars:

*69 SC. Forest fires in United States. 1915. 5¢.

Miscellaneous Circulars:

*19 MC. Forest fires in intermountain region. 5¢.

*44 MC. Forest-fire control. 5¢.

*53 MC. When fire is banished from the land of white oak. 5¢.

*79 MC. Forest-fire prevention handbook for school children. 15¢.

*88 MC. Forest-fire prevention handbook for schools of Arizona. 10¢.

*89 MC. Forest-fire prevention handbook for schools of New Mexico. 10¢.

Miscellaneous Publications:

*20 MP. Forest fire prevention handbook for schools of Oregon. 10¢.

29 MP. Measuring forest-fire danger in northern Idaho. 20¢.

*40 MP. Forest fire prevention handbook for schools of Washington (State). 15¢.

FISH, OYSTERS, AND MARINE PRODUCTS**Department Bulletins:**

538 D. Shrimp, handling, transportation, and uses. 5¢.

635 D. Commercial freezing and storing of fish. 5¢.

*649 D. Experiments on digestibility of fish. 5¢.

*819 D. Pink yeast causing spoilage in oysters. 5¢.

Technical Bulletins:

64 T. Bacteriology and chemistry of oysters, with special reference to regulatory control of production, handling, and shipment. 15¢.

Yearbook Separates:

623 Y. Supplementing our meat supply with fish. 5¢.

*665 Y. Shipping fish three thousand miles to market. 5¢.

FLAX**Farmers' Bulletins:**

669 F. Fiber flax. 5¢.

1328 F. Production of seed flax. 5¢.

Department Bulletins:

*655 D. Influence on linseed oil of the geographical source and variety of flax. 5¢.

*883 D. Experiments with flax on breaking. 10¢.

*1092 D. Pedigreed fiber flax. 10¢.

*1120 D. Investigations of heat canker of flax. 10¢.

1185 D. Flax-stem-anatomy in relation to retting. 5¢.

Department Circulars:

264 DC. Frost resistance in flax. 5¢.

341 DC. Seed flax as farm crop in 1925. 5¢.

Yearbook Separates:

- 958 Y. Flax rust control through immune strains possible. 5¢.
 1008 Y. Flax resistant to wilt and sown early helps to cut losses. 5¢.

FLOWERS AND SHRUBS**Farmers' Bulletins:**

- 750 F. Roses for the home. 5¢.
 1171 F. Growing annual flowering plants. 15¢.
 1311 F. Chrysanthemums for home. 5¢.
 1370 F. Dahlias for the home. 5¢.
 1381 F. Herbaceous perennials. 15¢.
 1406 F. Garden irises. 10¢.
 1495 F. Insect enemies of flower garden. 15¢.
 1547 F. Rose diseases, their cause and control. 5¢.

Department Bulletins:

- *797 D. Commercial Dutch-bulb culture in the United States. 10¢.
 962 D. Production of easter lily in northern climate. 10¢.
 1082 D. Production of tulip bulbs. 25¢.
 1270 D. Production of narcissus bulbs. 20¢.
 1327 D. Production of grape-hyacinth bulbs. 5¢.
 1331 D. Madonna lily. 5¢.
 1459 D. The Regal lily. 10¢.
 1462 D. American bulbs under glass. 15¢.

Technical Bulletins:

- *11 T. Production of hybrid Palestine iris corms. 5¢.

Circulars:

- 23 C. Score of easily propagated lilies. 15¢.
 25 C. Production of certain iris bulbs. 10¢.
 31 C. Japanese flowering cherries. 10¢.

Yearbook Separates:

- 998 Y. Nankeen lily scarce though grown easily in United States. 5¢.
 1010 Y. Rose from Portugal, Belle Portugaise proves adapted to United States. 5¢.

FOODS AND MENUES

(See also under canning and preserving)

Farmers' Bulletins:

- 653 F. Honey, its uses in the home. 5¢.
 712 F. School lunches. 5¢.
 717 F. Food for young children. 5¢.
 1195 F. Rice as food [with recipes]. 5¢.
 1236 F. Corn and its uses as food. 5¢.
 1313 F. Good proportions in diet. 5¢.
 1359 F. Milk, and its uses in the home. 5¢.
 1374 F. Care of food in the home. 5¢.

Department Bulletins:

- *241 D. Studies on fruit jellies. 5¢.
 *310 D. Digestibility of some animal fats [lard, beef fat, mutton fat, butter]. 5¢.
 319 D. Fermented milks. 5¢.
 *467 D. Food value and uses of poultry. 5¢.
 *471 D. Eggs and their value as food. 5¢.
 503 D. Turnips, beets, and other succulent roots and their use as food. 5¢.
 *505 D. Digestibility of some vegetable fats. 5¢.
 *507 D. Studies on digestibility of some animal fats. 5¢.
 *525 D. Experiments in determination of digestibility of millets. 5¢.
 *612 D. Digestibility of the dasheen. 5¢.
 *613 D. Digestibility of certain miscellaneous animal fats. 5¢.
 *649 D. Experiments on digestibility of fish. 5¢.
 656 D. Concord grape juice, manufacture and chemical composition. 5¢.
 *751 D. Experiments on digestibility of wheat bran in a diet without wheat flour. 5¢.
 *781 D. Digestibility of some by-product oils. 5¢.
 1033 D. Digestibility of cod-liver, java-almond, tea-seed, and water-melon-seed oils, deer fat, and some blended hydrogenated fats. 5¢.
 1055 D. Methods of manufacturing potato chips. 5¢.
 1123 D. Proportioning ingredients for ice-cream and other frozen products by balance method. 5¢.
 *1161 D. Effect of composition on the palatability of ice cream. 5¢.
 1213 D. Digestibility of raw starches and carbohydrates. 5¢.
 1307 D. Absorption and retention of hydrocyanic acid by fumigated food products, part 2. 5¢.

Technical Bulletins:

- 46 T. Flour for pretzels. 5¢.

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Department Circulars:

- 129 DC. Milk for the family. 5¢.
389 DC. Proximate composition of beef. 5¢.

Circulars:

- 35 C. Commercial production of sauerkraut. 10¢.
50 C. Proximate composition of fresh fruits. 5¢.

Secretary's Office Circulars:

- *75 SC. Food needs for 1918, agricultural program. 5¢.
*105 SC. Use potatoes to save wheat [with recipes]. 5¢.

Miscellaneous Circulars:

- 49 MC. Guide to good meals for junior homemaker. 5¢.
*52 MC. Certification of coal-tar food colors. 5¢.

Leaflets:

- 17 L. Cooking beef according to the cut. 5¢.
28 L. Lamb as you like it. 5¢.
42 L. Good food habits for children. 5¢.

Yearbook Separates:

- *592 Y. Some results obtained in studying ripening bananas with respiration calorimeter. 5¢.
623 Y. Supplementing our meat supply with fish. 5¢.
745 Y. Service of cold storage in conservation of foodstuffs. 5¢.
774 Y. Composition and food value of bottled soft drinks. 5¢.
*857 Y. Milk for midshipmen. 5¢.
*858 Y. Food for farm families. 5¢.
927 Y. Nutritive value of fruits, vegetables, and nuts. 5¢.

Miscellaneous:

- *O. E. S. Bulletin 28. Chemical Composition of American Food Materials. 10¢.
*O. E. S. Bulletin 69. Metabolism Experiments, 1899. 10¢.
*O. E. S. Bulletin 136. Metabolism Experiments, 1900-1902. 30¢.
*O. E. S. Bulletin 175. Metabolism Experiments, 1903-1904. 50¢.

FORESTS AND FORESTRY**Farmers' Bulletins:**

- 622 F. Basket willow culture. 5¢.
1071 F. Making woodlands profitable in Southern States. 5¢.
1117 F. Forestry and farm income. 5¢.
1123 F. Growing and planting hardwood seedlings on farm. 5¢.
1177 F. Care and improvement of farm woods. 5¢.
1208 F. Trees for town and city streets. 5¢.
1209 F. Planting and care of street trees. 5¢.
1210 F. Measuring and marketing farm timber. 10¢.
1256 F. Slash Pine. 5¢.
1312 F. Tree planting in Great Plains region. 10¢.
1405 F. Windbreak as a farm asset. 5¢.
1453 F. Growing and planting coniferous trees on farm. 10¢.
1459 F. Selling black-walnut timber. 5¢.
1481 F. Planting the roadside. 10¢.
1482 F. Trees for roadside planting. 10¢.
1486 F. Long-leaf pine primer. 5¢.
1492 F. Arbor day, its purpose and observance. 5¢.
1517 F. Loblolly pine primer. 10¢.
1534 F. Short-leaf pine primer. 10¢.

Department Bulletins:

- *152 D. Eastern hemlock. 10¢.
*153 D. Forest planting in eastern United States. 10¢.
*234 D. Utilization and management of lodgepole pine in Rocky Mountains. 15¢.
*285 D. The Northern hardwood forest, its composition, growth, and management. 20¢.
*303 D. Short-leaf pine, its economic importance and forest management. 15¢.
*327 D. Spruce and balsam fir trees of Rocky Mountain region. 20¢.
*474 D. True mahogany. 5¢.
*475 D. Reforestation on national forests. 20¢.
*479 D. Nursery practice on national forests. 25¢.
*481 D. Status and value of farm woodlots in eastern United States. 15¢.
*493 D. Investigations of rotting of slash in Arkansas. 5¢.
*497 D. Tests of western yellow-pine car sills, joists, and small clear pieces. 5¢.
*509 D. Theory of drying and its application to new humidity-regulated and recirculating dry kiln. 5¢.
*523 D. Utilization of the ash. 15¢.
*544 D. Red spruce, its growth and management. 20¢.
*549 D. Cross-ties purchased and treated in 1915. 5¢.
*633 D. Utilization of elm. 10¢.
706 D. American sumac, valuable tanning material and dyestuff. 5¢.
*711 D. Logging in the Douglas fir region. 30¢.

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Department Bulletins—Continued.

- *738 D. Effect of grazing upon western yellow pine reproduction in central Idaho. 10¢.
- 741 D. Effect of grazing upon aspen reproduction. 10¢.
- 863 D. Forestry lessons on home woodlands. 10¢.
- *894 D. Manual of design and installation of forest service water spray dry kiln. 10¢.
- *933 D. Black walnut, its growth and management. 20¢.
- 950 D. Regional development of pulp-wood resources of the Tongass National Forest, Alaska. 10¢.
- *1061 D. Long-leaf pine. 15¢.
- 1113 D. Development of cooperative shelter-belt demonstrations on Northern Great Plains. 10¢.
- 1131 D. Formation and pathological anatomy of frost rings in conifers injured by late frosts. 10¢.
- *1140 D. Deterioration of felled western yellow pine on insect-control projects. 5¢.
- *1163 D. Study of decay in Douglas fir in the Pacific Northwest. 10¢.
- 1176 D. Some results of cutting in the Sierra forests of California. 10¢.
- *1233 D. Forest types in central Rocky Mountains as affected by climate and soil. 30¢.
- *1263 D. Relative resistance of tree seedlings to excessive heat. 5¢.
- *1264 D. Forest planting in intermountain region. 15¢.
- 1291 D. Aspen in central Rocky Mountain region. 15¢.
- *1329 D. Bamboos, their culture and uses in United States. 20¢.
- 1402 D. Timber growing and logging practice in California pine region, measures necessary to keep forest land productive and to produce full timber crops. 10¢.
- *1437 D. Red alder of Pacific Northwest, its utilization with notes on growth and management. 10¢.
- 1491 D. Timber growing and logging practice in central hardwood region, measures necessary to keep forest land productive and to produce full timber crops. 15¢.
- *1493 D. Timber growing and logging practice in Douglas fir region, measures necessary to keep forest land productive and to produce full timber crops. 15¢.
- 1494 D. Timber growing and logging practice in western white pine, and larch-fir forests of northern Rocky Mountains, measures necessary to keep forest land productive and to produce full timber crops. 15¢.
- 1496 D. Timber growing and logging practice in Lake States, measures necessary to keep forest land productive and to produce full timber crops. 20¢.

Technical Bulletins:

- 92 T. The economic aspects of forest destruction in northern Michigan. 25¢.
- 104 T. Deterioration of wind-thrown timber on the Olympic Peninsula, Washington. 10¢.

Department Circulars:

- *5 DC. Out-of-door playgrounds of the San Isabel National Forest. 5¢.
- *8 DC. Arbor day. 5¢.
- *91 DC. The land of beautiful waters, Chelau National Forest. 5¢.
- 112 DC. Timber depletion and the answer. 5¢.
- *132 DC. Mountain vacation land, Washington National Forest. 10¢.
- *138 DC. In the open national forests of Washington. 20¢.
- *211 DC. Government forest work. 10¢.
- *239 DC. State forestry laws of 1921. 5¢.
- *240 DC. National forests of New Mexico. 5¢.
- *292 DC. Slash disposal in western white-pine forests in Idaho. 5¢.
- *313 DC. Purchase of land for national forests under act of Mar. 1, 1911, the Weeks law. 5¢.
- *318 DC. National forests of Arizona. 5¢.
- *359 DC. State forestry laws of 1922 and 1923. 10¢.
- 421 DC. Control of stain, decay, and other seasoning defects in red gum. 10¢.

Circulars:

- 19 C. Forests and floods. 10¢.
- 21 C. America and the world's woodpile. 5¢.
- 37 C. The protection forests of the Mississippi River watershed and their part in flood prevention. 10¢.

Secretary's Office Circulars:

- *79 SC. Emergency fuel from the farm woodland. 5¢.
- *129 SC. Private forestry. 5¢.
- 148 SC. A policy of forestry for the Nation. 5¢.
- *183 SC. Forest experiment stations. 10¢.

Miscellaneous Circulars:

- 5 MC. In the land of the ancient cliff dweller. 5¢.
- *15 MC. Importance of forestry and national forests. 5¢.
- *16 MC. Tree distribution [in Nebraska] under Kinkaid Act of 1911. 5¢.
- *36 MC. Wichita National Forest and Game Preserve. 5¢.
- 40 MC. White pine is profitable if protected from blister rust. 5¢.

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Miscellaneous Circulars—Continued.

- *47 MC. What the national forests mean to the intermountain region. 5¢.
- *48 MC. What national forests mean to Montana. 10¢.
- *71 MC. National forest resources of Utah. 10¢.
- *75 MC. Harvesting timber crops in national forests of the East and South. 5¢.
- *82 MC. National forests of Wyoming. 10¢.
- 91 MC. Forestry program for women's organizations. 5¢.
- *92 MC. Check list of forest trees of United States, their names and ranges. 40¢.
- *94 MC. National forests of California. 15¢.
- *98 MC. The forest, handbook for teachers. 30¢.
- 100 MC. Natural replacement of blight-killed chestnut. 5¢.

Miscellaneous Publications:

- *18 MP. National forests of Colorado. 15¢.
- 24 MP. Growing pine timber for profit in the South; some examples, estimates, and opinions by lumbermen and others. 5¢.
- *26 MP. Why grow timber? 5¢.
- *39 MP. Rio Grande National Forest, Colo. 5¢.
- 45 MP. Forestry clubs for young people. 5¢.

Leaflets:

- 18 L. Bamboos and bamboo culture 5¢.
- 29 L. Farm woods, a savings bank paying interest. 5¢.
- 30 L. Cutting the farm woods "profit wise." 5¢.
- 32 L. Planting southern pine. 5¢.
- 35 L. Producing pine nursery stock in the South. 5¢.
- 40 L. Woods burning in the South. 5¢.

Yearbook Separates:

- *779 Y. Farm woodlands and the war. 5¢.
- 835 Y. Wood for the Nation. 5¢.
- 847 Y. How the public forests are handled. 5¢.
- 886 Y. Timber, mine or crop. 15¢.
- 910 Y. Forestry and forest products. 5¢.
- *943 Y. Bamboo groves thrive in United States. 5¢.
- 945 Y. Chinese elm in American horticulture. 5¢.
- 1005 Y. Holly from China suited to wide areas in United States. 5¢.
- 1012 Y. Tung-oil tree does best in southeast coastal regions. 5¢.
- 1014 Y. Tree giants in Sequoia groves are menaced by tourists. 5¢.

Miscellaneous:

- *Forest trees of the Pacific slope. 60¢.
- National forest receipts for the benefit of schools and roads.
- *Instructions for appraising stumpage on national forests. 10¢.
- *Guidebook for identification of woods used for ties and timbers. 30¢.
- *What the national forests mean to the water user. 10¢.
- Vacation in the national forests. (Leaflet.)
- *Telephone trouble book, District 1. 25¢.
- *Trail construction on the national forests.
- *Instructions for making timber surveys in national forests, including classification of forest types. 25¢.
- *National forests of southern Appalachians, what they mean to the East and South. 15¢.
- *National forests of Arizona. 5¢.
- *Ideal vacation land, national forests in Oregon. 15¢.
- *Oregon caves. 10¢.
- Help prevent woods fires. (Leaflet.)
- Pines for profit. (Leaflet.)
- *Sharpening cross-cut saws. 25¢.
- *The story of the range. 25¢.
- Grazing use book.

FOREST PRODUCTS**Department Bulletins:**

- *12 D. Uses of commercial woods of United States; beech, birches, maples. 10¢.
- *232 D. Production of lumber in 1913. 5¢.
- *286 D. Strength tests of structural timbers treated by commercial wood-preserving processes. 5¢.
- *508 D. Yields from destructive distillation of certain hardwoods, second progress report. 5¢.
- *552 D. Seasoning of wood. 10¢.
- *556 D. Mechanical properties of woods grown in United States. 10¢.
- *673 D. Production of lumber, lath, and shingles in 1916. 5¢.
- *753 D. Use of wood for fuel. 10¢.
- *768 D. Production of lumber, lath, and shingles in 1917. 10¢.
- *816 D. Street trees. 15¢.
- *845 D. Production of lumber, lath, and shingles in 1918. 10¢.
- *909 D. Utilization of black walnut. 30¢.
- *983 D. Manufacture of ethyl alcohol from wood waste. 15¢.
- *1003 D. Distillation of stumpwood and logging waste of Western yellow pine. 15¢.
- 1007 D. Utilization of basswood. 20¢.

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Department Bulletins—Continued.

- *1037 D. Control of sap-stain, mold, and incipient decay in green wood, with special reference to vehicle stock. 15¢.
- *1050 D. Identification of true mahogany, certain so-called mahoganies, and some common substitutes. 10¢.
- *1053 D. Studies of certain fungi of economic importance in decay of building timbers. 15¢.
- *1064 D. Oleoresin production. 20¢.
- *1119 D. Lumber cut in United States, 1870-1920, declining production and high prices as related to forest exhaustion. 15¢.
- 1128 D. Decays and discolorations in airplane woods. 20¢.
- 1136 D. Kiln drying handbook. 25¢.
- *1425 D. Air seasoning of western softwood lumber. 25¢.
- 1436 D. Utilization of dogwood and persimmon. 15¢.

Department Circulars:

- *64 DC. How lumber is graded. 10¢.
- *78 DC. Machine for trimming camphor trees. 5¢.
- *223 DC. Important forest trees of eastern United States. 5¢.
- *295 DC. Basic grading rules and working stresses for structural timbers. 5¢.
- *296 DC. Standard grading specifications for yard lumber. 20¢.
- 327 DC. French turpentine system applied to longleaf pine. 5¢.
- *393 DC. Industrial outlets for short-length softwood yard lumber. 10¢.

Miscellaneous Circulars:

- *39 MC. Report of National Conference on Utilization of Forest Products, Washington, D. C., Nov. 19 and 20, 1924. 20¢.
- 66 MC. Identification of furniture woods. 25¢.

Yearbook Separates:

- *276 Y. Chemical studies of some forest products of economic importance. 5¢.
- *670 Y. Osage waste as a substitute for fustic dyewood. 5¢.
- 835 Y. Wood for the Nation. 5¢.
- 856 Y. Putting wood waste to work. 5¢.

FRUIT GROWING

(See also under names of fruits)

Farmers' Bulletins:

- 685 F. The native persimmon. 5¢.
- 727 F. Growing fruit for home use in the Great Plains area. 5¢.
- 776 F. Growing cherries east of Rocky Mountains. 5¢.
- 1001 F. Growing fruit for home use. 10¢.
- 1031 F. Fig growing in the South Atlantic and Gulf States. 5¢.
- 1128 F. Control of aphids injurious to orchard fruits, currant, gooseberry, and grape. 10¢.
- 1237 F. Pineapple culture in Florida. 10¢.
- 1249 F. Olive growing in southwestern United States. 5¢.
- 1372 F. Plum and prune growing in Pacific States. 10¢.
- 1522 F. Home fruit gardens on northern Great Plains. 10¢.

Department Bulletins:

- *223 D. Botanical character of leaves of date palm used in distinguishing cultivated varieties. 10¢.
- 271 D. Dates of Egypt and the Sudan. 20¢.
- 732 D. Smyrna fig culture. 10¢.
- *830 D. Effect of temperature on resistance to wounding of certain small fruits and cherries. 5¢.
- 856 D. Currant grape growing. 10¢.
- 1073 D. Some changes in the composition of California avocados during growth. 5¢.
- *1125 D. Saidy date of Egypt, variety of first rank adapted to commercial culture in United States. 15¢.
- *1189 D. Fruits in West Virginia, Kentucky, and Tennessee. 15¢.
- 1215 D. Chinese jujube. 10¢.
- 1457 D. Date culture in Egypt and the Sudan. 25¢.
- 1477 D. Varietal characteristics of plums in Pacific States in relation to pruning. 45¢.

Department Circulars:

- *58 DC. Fruit growing on northern Great Plains. 5¢.
- *350 DC. Improved type of pressure tester for the determination of fruit maturity. 5¢.
- 416 DC. Demand, marketing, and production of Oregon and Washington prunes. 10¢.

Circulars:

- 49 C. Culture and outdoor winter storage of persimmons in vicinity of Peking, China. 5¢.
- 59 C. Removal of spray residue from apples and pears in Pacific Northwest. 5¢.

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Yearbook Separates:

- *618 Y. Promising new fruits. 15¢.
- *686 Y. Color as indication of picking maturity of fruits and vegetables. 10¢.
- 944 Y. Chinese jujube in southwestern United States. 5¢.
- *947 Y. Olives of the Barouni variety do well. 5¢.
- *948 Y. Quetta nectarine, a new fruit of Indian origin. 5¢.
- 949 Y. Date growing, a new industry for Southwest States. 5¢.
- *1020 Y. Fruit improvement work advanced at experiment stations. 5¢.
- *1021 Y. Mango of carabao variety brought from Philippines is promising. 5¢.
- 1024 Y. Date plantings free from pests, in irrigated Southwest. 5¢.

FUR-BEARING ANIMALS**Farmers' Bulletins:**

- 587 F. Economic value of North American skunks. 5¢.
- 869 F. Muskrat as fur bearer with notes on its use as food. 5¢.
- 1247 F. American moles as agricultural pests and as fur producers. 5¢.
- 1519 F. Rabbit skins for fur. 5¢.
- 1568 F. Rabbit parasites and diseases. 5¢.

Department Bulletins:

- *1151 D. Silver-fox farming. 15¢.
- 1350 D. Blue-fox farming in Alaska. 10¢.

Technical Bulletins:

- 21 T. Beaver habits and experiments in beaver culture. 20¢.

Miscellaneous Circulars:

- *69 MC. Construction and operation of Biological Survey beaver trap. 5¢.

Leaflets:

- 4 L. Raising domestic rabbits. 5¢.
- 6 L. Experimental fur farm of Biological Survey. 5¢.
- 8 L. Mink raising. 5¢.
- 15 L. Rabbit house construction. 5¢.
- 22 L. Chinchilla rabbits for food and fur. 5¢.
- 27 L. Recommendations to beginners in fur farming. 5¢.

GAME, GAME LAWS AND REGULATIONS**Farmers' Bulletins:**

- 1521 F. Propagation of game birds. 10¢.

Department Bulletins:

- 205 D. Eleven important wild-duck foods. 5¢.
- 465 D. Propagation of wild-duck foods. 10¢.
- *672 D. Duck sickness in Utah. 10¢.
- *720 D. Food habits of mallard ducks of United States. 5¢.
- 793 D. Lead poisoning in waterfowl. 5¢.
- *794 D. Waterfowl and their food plants in the sandhill region of Nebraska: Pt. 1, Waterfowl in Nebraska; Pt. 2, Wild-duck foods of the sandhill region of Nebraska. 15¢.
- 1089 D. Reindeer in Alaska. 25¢.
- *1145 D. Migration records from wild ducks and other birds banded in Salt Lake Valley, Utah. 5¢.
- 1346 D. Status of pronghorned antelope, 1922-1924. 15¢.
- 1423 D. Progress of reindeer grazing investigations in Alaska. 15¢.

Department Circulars:

- *63 DC. Directory of officials and organizations concerned with the protection of birds and game, 1919. 5¢.
- *88 DC. Annual report of the Governor of Alaska on the Alaska game law, 1919. 5¢.
- *161 DC. Pisgah National Game Preserve, regulations and information for the public. 5¢.
- *168 DC. Annual report of Governor of Alaska on Alaska game law, 1920. 5¢.
- *182 DC. Migratory bird treaty act, extract from charge delivered to grand jury in district court of United States for middle district of Alabama at Opelika, Apr. 4, 1921. 5¢.
- *202 DC. Migratory bird treaty act, United States v. Joseph H. Lumpkin. 5¢.
- *225 DC. Annual report of Governor of Alaska on Alaska game law, 1921. 5¢.
- *242 DC. Directory of officials and organizations concerned with protection of birds and game, 1922. 5¢.
- 260 DC. Annual report of Governor of Alaska on Alaska game law, 1922. 5¢.
- *298 DC. Directory of officials and organizations concerned with protection of birds and game, 1923. 5¢.
- *360 DC. Directory of officials and organizations concerned with protection of birds and game, 1925. 5¢.
- 362 DC. Trapping ducks for banding. 5¢.

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Miscellaneous Publications:

- 6 MP. Directory of officials and organizations concerned with protection of birds and game, 1927. 5¢.
 *30 MP. Directory of officials and organizations concerned with protection of birds and game, 1928. 5¢.

Yearbook Separates:

- 723 Y. Great Plains waterfowl breeding founds and their protection. 5¢.
 *785 Y. Federal protection of migratory birds. 5¢.
 823 Y. Trapping on the farm. 5¢.
 836 Y. Conserving our wild animals and birds. 5¢.

GARDENING: HOME AND SCHOOL*(See also under diseases, insects)***Farmers' Bulletins:**

- 218 F. School garden. 5¢.
 937 F. Farm garden in the North. 5¢.
 1044 F. City home garden. 5¢.
 1242 F. Fruit and vegetable gardens. 5¢.

GARDENING, TRUCK*(See also under diseases, insects)***Farmers' Bulletins:**

- 232 F. Okra, its culture and uses. 5¢.
 354 F. Onion culture. 5¢.
 433 F. Cabbage. 5¢.
 434 F. Onion seeds and sets. 5¢.
 829 F. Asparagus. 5¢.
 1064 F. Production of late or main-crop potatoes. 5¢.
 1253 F. Seed peas for the canner. 5¢.
 1255 F. Production of peas for canning. 5¢.
 1269 F. Celery growing. 5¢.
 1338 F. Tomatoes as a truck crop. 5¢.
 1563 F. Cucumber growing. 5¢.

GRAINS**Farmers' Bulletins:**

- 786 F. Fall-sown grains in Maryland and Virginia. 5¢.
 793 F. Foxtail millet, its culture and utilization. 5¢.
 800 F. Grains for dry lands of Oregon. 5¢.
 827 F. Shallu; Egyptian wheat. 5¢.
 878 F. Grains for Western North and South Dakota. 5¢.
 883 F. Grains for Utah dry lands. 5¢.
 965 F. Growing grain sorghums in San Antonio district of Texas. 5¢.
 1062 F. Buckwheat. 5¢.
 1103 F. Growing irrigated grain in southern Idaho. 5¢.
 1137 F. Grain sorghums, how to grow them. 5¢.
 1158 F. Growing and utilizing sorghums for forage. 5¢.
 1162 F. Proso, or hog millet. 5¢.
 1290 F. Bulk handling of grain. 5¢.
 1429 F. Emmer and spelt. 5¢.
 1464 F. Barley: Culture and uses, and varieties. 5¢.
 1542 F. Cleaning grain on farms and in country elevators. 5¢.
 1577 F. Harvesting grain sorghums. 5¢.

Department Bulletins:

- *188 D. Importance of thick seeding in the production of milo in the San Antonio region.
 *558 D. Marketing grain at country points. 5¢.
 698 D. Grain-sorghum experiments in Panhandle of Texas. 15¢.
 *789 D. Notes on grain pressures in storage bins. 5¢.
 *869 D. Inheritance of the length of internode in the rachis of the barley spike. 5¢.
 *976 D. Culture experiments with grain sorghums in the Texas Panhandle. 10¢.
 1065 D. The test weight of grain, a simple method of determining the accuracy of the testing apparatus. 5¢.
 1129 D. Physical and chemical study of milo and feterita kernels. 5¢.
 *1175 D. Grain-sorghum experiments at the Woodward Field Station in Oklahoma. 15¢.
 1197 D. Experiment with emmer, spelt, and einkorn. 10¢.
 1260 D. Sorghum experiments on the Great Plains. 15¢.
 *1309 D. Experiments with small grains on Arlington Experiment Farm. 10¢.
 *1334 D. Tests of barley varieties in America. 30¢.
 1386 D. Some panicle characters of sorgo. 20¢.

Technical Bulletins:

- 100 T. Respiration of sorghum grains. 5¢.

Department Circulars:

- *124 DC. Spur feterita. 5¢.
 *208 DC. Trebi barley, a superior variety for irrigated land. 5¢.

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Miscellaneous Circulars:

56 MC. Cleaning grain with Bates aspirator. 10¢.

Yearbook Separates:

766 Y. Farmer and Federal grain supervision. 5¢.

769 Y. Place of rye in American agriculture. 5¢.

GRAPES**Farmers' Bulletins:**

471 F. Grape propagation, pruning, and training. 5¢.

1220 F. Insect and fungous enemies of the grape. 10¢.

1454 F. Home utilization of muscadine grapes. 5¢.

1558 F. Preparation of eastern grapes for market. 5¢.

Department Bulletins:

*19 D. Grape leaf hopper in Lake Erie Valley. 10¢.

*550 D. Control of grape-berry moth in Erie-Chautauqua grape belt. 10¢.

656 D. Concord grape juice, manufacture and chemical composition. 5¢.

861 D. Marketing eastern grapes. 10¢.

*903 D. Grape phylloxera in California. 30¢.

Circulars:

44 C. Marketing California grapes. 25¢.

GRASSES, FORAGE CROPS, AND GRAZING**Farmers' Bulletins:**

945 F. Eradication of Bermuda grass. 5¢.

967 F. Purple vetch. 5¢.

1048 F. Rhodes grass. 5¢.

1072 F. Prickly pear as a stock feed. 5¢.

1126 F. Sudan grass. 5¢.

1143 F. Lespedeza as a forage crop. 5¢.

1148 F. Cowpeas, culture and varieties. 5¢.

1153 F. Cowpeas utilization. 5¢.

1254 F. Important cultivated grasses. 5¢.

1276 F. Velvet bean. 5¢.

1433 F. Cultivated grasses of secondary importance. 10¢.

1476 F. Johnson grass, its production for hay and pasture. 5¢.

1511 F. Forage crops and their culture in northern Nebraska and the Dakotas. 10¢.

1520 F. Soy beans, culture and varieties. 5¢.

1537 F. Johnson grass as a weed. 5¢.

1573 F. Legume hays for milk production. 5¢.

1574 F. Preparing Johnson grass for market in the Black Prairie Belt of Alabama and Mississippi. 5¢.

Department Bulletins:

*34 D. Range improvement by deferred and rotation grazing. 5¢.

*211 D. Factors affecting range management in New Mexico. 15¢.

*353 D. Moisture content and shrinkage of forage. 10¢.

*461 D. Identification of grasses by their vegetative characters. 5¢.

*580 D. Effects of grazing upon western yellow pine reproduction in the national forests of Arizona and New Mexico. 10¢.

*692 D. Agricultural species of bent grasses. 5¢.

*772 D. Genera of grasses of United States, with special reference to the economic species. 40¢.

1170 D. Effects of different systems and intensities of grazing upon native vegetation at the Northern Great Plains Field Station. 15¢.

1244 D. Forage crops in relation to the agriculture of semiarid portion of the northern Great Plains. 10¢.

1345 D. Saltbushes and their allies in United States. 15¢.

*1405 D. Grazing periods and forage production on national forests. 15¢.

1450 D. Life history of timothy. 25¢.

Technical Bulletins:

93 T. Four species of range plants not poisonous to livestock. 5¢.

Department Circulars:

*9 DC. Meadow fescue. 5¢.

42 DC. Perennial rye-grass. 5¢.

44 DC. Italian rye-grass. 5¢.

45 DC. Para grass. 5¢.

*50 DC. Sudan grass. 5¢.

*118 DC. Field pea. 5¢.

*317 DC. Korean lespedeza, new forage crops. 5¢.

*374 DC. Winter field peas, their value as winter cover and green-manure crop. 5¢.

Yearbook Separates:

895 Y. Our forage resources. 20¢.

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HAY, HAYMAKING, AND MARKETING

Farmers' Bulletins:

- 977 F. Hay caps. 5¢.
- 987 F. Labor-saving practices in haymaking. 5¢.
- 1009 F. Haystackers, how they may be used in the East and the South to save labor. 5¢.
- 1525 F. Effective haying equipment and practices for northern Great Plains and intermountain regions. 10¢.
- 1573 F. Legume hays for milk production. 5¢.
- 1574 F. Preparing Johnson grass for market in Black Prairie Belt of Alabama and Mississippi. 5¢.

Department Bulletins:

- *873 D. The shrinkage of market hay. 5¢.
- 977 D. Marketing hay at country points. 5¢.
- 978 D. Weighing of market hay. 10¢.
- 979 D. Marketing hay through terminal markets. 10¢.
- 980 D. Inspection and grading of hay. 5¢.

Yearbook Separates:

- 916 Y. Hay. 20¢.

HOGS

Farmers' Bulletins:

- 781 F. Tuberculosis of hogs. 5¢.
- 834 F. Hog cholera, prevention and treatment. 5¢.
- 985 F. Systems of hog farming in Southeastern States. 5¢.
- 1085 F. Hog lice and hog mange, methods of control and eradication. 5¢.
- 1133 F. Feeding garbage to hogs. 5¢.
- 1186 F. Pork on farm, killing, curing, and canning. 5¢.
- 1244 F. Diseases, ailments, and abnormal conditions of swine. 5¢.
- 1263 F. Breeds of swine. 5¢.
- 1357 F. Castration of hogs. 5¢.
- 1437 F. Swine production. 5¢.
- 1455 F. Fitting, showing, and judging hogs. 5¢.
- 1487 F. Practical hog houses. 5¢.
- 1490 F. Hog-lot equipment. 5¢.

Department Bulletins:

- 752 D. Utilization of irrigated field crops for hog pasturing. 10¢.
- *1300 D. Corn and hog correlations. 10¢.
- 1381 D. Cost of producing hogs in Iowa and Illinois, 1921-22. 10¢.
- 1407 D. Some results of soft-pork investigations, I. 15¢.
- 1440 D. Factors affecting price of hogs. 15¢.
- 1492 D. Some results of soft-pork investigations, II. 15¢.

Technical Bulletins:

- 44 T. Swine sanitation system as developed by Bureau of Animal Industry in McLean County, Ill. 5¢.

Secretary's Office Circulars:

- *80 SC. Disposal of city garbage by feeding to hogs. 5¢.

Miscellaneous Circulars:

- 57 MC. Tattoo method of marking hogs and its use. 5¢.

Leaflets:

- 5 L. Prevention of round worms in pigs. 5¢.

Yearbook Separates:

- *753 Y. Pig clubs and the swine industry. 5¢.
- 798 Y. Practical points in hog cholera control. 5¢.
- 841 Y. Runts, and the remedy. 5¢.
- 989 Y. Pork curing needs extreme care to give best results. 5¢.
- 992 Y. Hog industry losing much on pigs that don't get to market. 5¢.

HOME ECONOMICS

Farmers' Bulletins:

- 927 F. Farm home conveniences. 5¢.
- 960 F. Neufchatel and cream cheese, farm manufacture and use. 5¢.
- 1075 F. Unfermented grape juice, how to make it in the home. 5¢.
- 1180 F. Housecleaning made easier. 5¢.
- 1191 F. Making American cheese on farm. 5¢.
- 1219 F. Floors and floor covering. 5¢.
- 1264 F. Farm manufacture of unfermented apple juice. 5¢.
- 1374 F. Care of food in the home. 5¢.
- 1424 F. Making vinegar in the home and on the farm. 5¢.
- 1449 F. Selection of cotton fabrics. 5¢.
- 1450 F. Home baking. 5¢.
- 1474 F. Stain removal from fabrics, home methods. 5¢.
- 1497 F. Methods and equipment for home laundering. 5¢.
- 1513 F. Convenient kitchens. 5¢.
- 1530 F. Fitting dresses and blouses. 10¢.
- 1553 F. Planning and recording family expenditures. 5¢.

Department Bulletins:

- *469 D. Fats and their economical use in the home. 5¢.
- 1025 D. Studies in the clarification of unfermented fruit juices. 5¢.

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Department Circulars:

- *2 D.C. Sewing for girls' club work. 5¢.
- *207 D.C. The paper dress form. 5¢.

Miscellaneous Publications:

- 4 M.P. Present trends in home sewing. 5¢.
- *31 M.P. Changing uses of textile fabrics in clothing and household articles. 10¢.

Leaflets:

- 11 L. Children's rompers. 5¢.
- 24 L. Sun suits for children. 5¢.
- 26 L. Dresses for the little girl. 5¢.

Yearbook Separates:

- 991 Y. Meat problems yield to studies by State and Federal workers. 5¢.

HORSES AND MULES**Farmers' Bulletins:**

- 619 F. Breeds of draft horses. 5¢.
- 779 F. How to select a sound horse. 5¢.
- 803 F. Horse-breeding suggestions for farmers. 5¢.
- 952 F. Breeds of light horses. 5¢.
- 1030 F. Feeding horses. 5¢.
- 1146 F. Dourine of horses. 5¢.
- 1341 F. Mule production. 5¢.
- 1368 F. Breaking and training colts. 5¢.
- 1419 F. Care and management of farm work horses. 5¢.
- 1493 F. Lice, mange, and ticks of horses, and methods of control and eradication. 5¢.
- 1503 F. Horse bots and their control. 5¢.
- 1535 F. Farm horseshoeing. 5¢.

Department Bulletins:

- *929 D. Cottonseed meal for horses. 5¢.

Department Circulars:

- 199 D.C. Breeding Morgan horses at the U. S. Morgan Horse farm. 10¢.

Yearbook Separates:

- *692 Y. Stallion legislation and horse-breeding industry. 5¢.

Miscellaneous:

- *Special Report on Diseases of the Horse. 1924. \$1.

INSECTICIDES, FUNGICIDES, AND DISINFECTANTS**Farmers' Bulletins:**

- 799 F. Carbon disulphid as an insecticide. 5¢.
- 880 F. Fumigation of ornamental greenhouse plants with hydrocyanic-acid gas. 5¢.
- 908 F. Information for fruit growers about insecticides, spraying apparatus, and important insect pests. 15¢.
- 926 F. Some common disinfectants. 5¢.
- 954 F. Disinfection of stables. 5¢.
- 994 F. Commercial Bordeaux mixtures, how to calculate their value. 5¢.
- 1285 F. Lime-sulphur concentrates, preparation, uses, and designs for plants. 5¢.
- 1356 F. Tobacco hornworm insecticide, recommendations for use of powdered arsenate of lead in dark-tobacco district. 5¢.

Department Bulletins:

- *165 D. Quassia as contact insecticide. 5¢.
- *197 D. Homemade lime-sulphur concentrate. 5¢.
- *707 D. Results of experiments with miscellaneous substances against bedbugs, cockroaches, clothes moths, carpet beetles. 5¢.
- *750 D. Methods for preparing commercial grade of calcium arsenate. 5¢.
- 795 D. Adulteration of insect powder with powdered daisy flowers. 5¢.
- 824 D. Insect powder [or pyrethrum powder]. 20¢.
- 893 D. Experiments on toxic action of certain gases on insects, seeds and fungi. 5¢.
- 1115 D. Chemical changes in calcium arsenate during storage. 10¢.
- *1146 D. Influence of copper sprays on yield and composition of Irish potato tubers. 5¢.
- 1147 D. Chemical, physical, and insecticidal properties of arsenicals. 10¢.
- 1178 D. Bordeaux-oil emulsion. 5¢.
- *1201 D. Plants tested for or reported to possess insecticidal properties. 10¢.
- 1217 D. Mixing emulsified mineral lubricating oils with deep-well waters and lime sulphur solutions. 5¢.
- 1308 D. Chemical and physical methods for control of saponified cresol solutions. 5¢.
- 1312 D. Loss of nicotine from nicotine dust during storage. 5¢.
- *1332 D. Emulsions of wormseed oil and of carbon disulfide for destroying larvae of the Japanese beetle in roots of perennial plants. 5¢.

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Department Bulletins—Continued.

*1371 D. Effectiveness against San Jose scale of dry substitutes for liquid lime-sulphur. 5¢.

1389 D. Deterioration of commercially packed chlorinated lime. 5¢.

*1439 D. Fish oil, efficient adhesive in arsenate-of-lead sprays. 10¢.

Technical Bulletins:

80 T. Tests of blowfly baits and repellents during 1926. 5¢.

111 T. Fish oil as an adhesive in lead-arsenate sprays. 10¢.

Department Circulars:

*367 DC. Airplane dusting in control of malaria mosquitoes. 5¢.

380 DC. Calcium cyanide as fumigant for ornamental greenhouse plants. 5¢.

Circulars:

7 C. Apparatus for rapid vaporization of carbon disulphide. 5¢.

Yearbook Separates:

*1011 Y. Fungicide as term commonly used has 3 definitions. 5¢.

INSECTS: ANIMAL

(See also under name of animal)

Farmers' Bulletins:

798 F. Sheep-tick and its eradication by dipping. 5¢.

857 F. Screw worms and other maggots affecting animals. 5¢.

897 F. Fleas and their control. 5¢.

909 F. Cattle-lice and their eradication. 5¢.

980 F. Spinose ear tick, and methods of treating infested animals. 5¢.

1057 F. Cattle-fever ticks, and methods of eradication. 5¢.

1097 F. Stable fly, how to prevent its annoyance and its losses to livestock. 5¢.

1493 F. Lice, mange and ticks of horses, control and eradication methods. 5¢.

Department Bulletins:

*1218 D. Horseflies, biologies and relation to western agriculture. 10¢.

1369 D. Cattle grubs or ox warbles, their biologies and suggestions for control. 25¢.

1472 D. Chemitropic tests with screw-worm fly. 5¢.

Technical Bulletins:

52 T. Classification of higher groups and genera of coccid family Margarodidae. 50¢.

Department Circulars:

184 DC. State laws and court decisions relating to cattle-tick eradication. 5¢.

*294 DC. Rat mite attacking man. 5¢.

Circulars:

18 C. Experimental dissemination of tabanid egg parasite *Phanurus emersoni* Girault and biological notes on the species. 5¢.

Miscellaneous Publications:

25 MP. Calendar of livestock parasites. 5¢.

INSECTS: FOREST AND SHADE TREES

(See also under name of tree)

Farmers' Bulletins:

701 F. The bagworm: an injurious shade-tree insect. 5¢.

705 F. The catalpa sphinx. 5¢.

708 F. The leopard moth, a dangerous imported insect enemy of shade trees. 5¢.

763 F. Orchard barkbeetles and pinhole borers and how to control them. 5¢.

1076 F. California oak worm. 5¢.

1169 F. Insects injurious to deciduous shade trees and their control. 5¢.

1259 F. Sawfly injurious to young pines. 5¢.

1477 F. Preventing damage by lyctus powder-post beetles. 5¢.

Department Bulletins:

*95 D. Insect damage to cones and seeds of Pacific coast conifers. 5¢.

*111 D. Sequoia pitch moth, menace to pine in western Montana. 5¢.

*184 D. Hulcashe girdler. 5¢.

*204 D. Report of gipsy-moth work in New England. 30¢.

*251 D. Calosoma beetle (*Calosoma sycophanta*) in New England. 15¢.

*480 D. Solid-stream spraying against gipsy moth and brown-tail moth in New England. 15¢.

*766 D. Study of *Compsilura concinnata*, an important tachinid parasite of gipsy moth and brown-tail moth. 10¢.

*838 D. Cypress bark scale. 10¢.

*899 D. Gipsy moth tree-banding material, how to make, use, and apply it. 15¢.

*1028 D. *Apanteles melanoscelus*, an important parasite of the gipsy moth. 10¢.

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Department Bulletins—Continued.

- *1066 D. Curculios that attack the young fruits and shoots of walnut and hickory. 10¢.
- 1076 D. Biology of the lotus borer. 5¢.
- *1079 D. Experiments with spray solutions for preventing insect injury to green logs. 5¢.
- *1080 D. Effect of low temperature on hatching of gypsy-moth eggs. 5¢.
- *1088 D. *Zygobothria nidicola*, an important parasite of the brown-tail moth. 5¢.
- *1142 D. Barrier factors in gypsy moth tree banding material. 5¢.
- 1182 D. Imported pine sawfly. 5¢.
- *1223 D. European elm scale in the West. 10¢.
- 1363 D. Host relations of *Compsilura concinnata* Meigen, important tachinid parasite of gypsy moth and brown-tail moth. 5¢.
- 1429 D. Parasites of *Popillia japonica* in Japan and Chosen (Korea), and their introduction into United States. 15¢.
- 1469 D. Satin moth, a recently introduced pest. 10¢.
- *1487 D. Study in hyperparasitism, with particular reference to parasites of *Apanteles melanoscelus* (Ratzeburg). 10¢.
- 1490 D. Defects in timber caused by insects. 15¢.

Technical Bulletins:

- 3 T. Relation of highway slash to infestations by western pine beetle in standing timber. 5¢.
- 48 T. Western cedar pole borer or powder worm. 5¢.

Department Circulars:

- *154 DC. Nicotine sulphate in dust carrier against truckcrop insects. 5¢.
- *167 DC. Satin moth, introduced enemy of poplars and willows. 5¢.
- 411 DC. Relation of insects to slash disposal. 5¢.

INSECTS: FRUIT

(See also under name of fruit)

Farmers' Bulletins:

- 650 F. San Jose scale and its control. 5¢.
- 662 F. Apple-tree tent caterpillar. 5¢.
- 722 F. Leaf blister mite of pear and apple. 5¢.
- 723 F. Oyster-shell scale and scurfy scale. 5¢.
- 860 F. Cranberry insect problems and suggestions for solving them. 5¢.
- 1128 F. Control of aphids injurious to orchard fruits, currant, gooseberry, and grape. 10¢.
- 1257 F. Insects injurious to mango in Florida and how to combat them. 5¢.
- 1261 F. Avocado: Its insect enemies and how to combat them. 5¢.
- 1270 F. Important apple insects. 15¢.
- 1286 F. Red-necked raspberry cane borer. 5¢.
- 1309 F. Control of the common mealybug on citrus in California. 5¢.
- 1326 F. Control of codling moth in Pacific Northwest. 10¢.
- 1557 F. Insects attacking the peach in the South, and how to control them. 10¢.

Department Bulletins:

- *88 D. Control of codling moth in Pecos Valley, N. Mex. 5¢.
- *161 D. Mediterranean fruit fly in Bermuda. 5¢.
- *173 D. Life history and habits of pear thrips in California. 15¢.
- *189 D. Studies of codling moth in central Appalachian region. 10¢.
- *252 D. Life history of codling moth in Maine. 10¢.
- *262 D. Parandra borer as orchard enemy. 5¢.
- *351 D. Terrapin scale, important insect enemy of peach orchards. 15¢.
- *598 D. Orchard injury by the hickory tiger moth. 5¢.
- *774 D. Life history and habits of mealy plum aphid. 5¢.
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- *911 D. Life history of the grape-berry moth in northern Ohio. 10¢.
- *914 D. The red-banded leaf roller. 5¢.
- *932 D. Life history of the codling moth in the Grand Valley of Colorado. 25¢.
- *959 D. Experiments and suggestion for the control of the codling moth in the Grand Valley of Colorado. 10¢.
- *965 D. Control of the Argentine ant in California citrus orchards. 10¢.
- *1035 D. The red spider on the avocado. 10¢.
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- *1273 D. Bud moth. 5¢.

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Technical Bulletins:

- 20 T. Study of Phylloxera infestation in California as related to types of soils. 25¢.
 25 T. Experiments for control of European red mite and other fruit-tree mites. 10¢.
 42 T. Life history of the codling moth in Delaware. 15¢.
 83 T. Pacific flathead borer. 15¢.
 89 T. Biology of European red mite in Pacific Northwest. 15¢.

Department Circulars:

- 263 DC. Preliminary report on control of San Jose scab with lubricating-oil emulsion. 5¢.

Yearbook Separates:

- *731 Y. Danger of introducing fruit flies in United States. 5¢.

INSECTS: GARDEN, FLOWER, AND MISCELLANEOUS

(See also under name of flower or plant)

Farmers' Bulletins:

- 846 F. Tobacco beetle and how to prevent damage by it. 5¢.
 940 F. Common white grubs. 5¢.
 959 F. Spotted garden slug. 5¢.
 1003 F. How to control billbugs destructive to cereal and forage crops. 5¢.
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 *491 D. The melon fly in Hawaii. 25¢.
 *535 D. Horse-radish flea beetle; life history and distribution. 5¢.
 *703 D. Miscellaneous truck-crop insects in Louisiana. 10¢.
 *778 D. Rose midge. 5¢.
 *833 D. Chrysanthemum midge. 10¢.
 *892 D. The beet leaf beetle. 15¢.
 *966 D. European horse-radish webworm. 5¢.
 *967 D. Results of work on blister beetles in Kansas. 10¢.
 986 D. Studies on the biology and control of chiggers. 5¢.
 *1103 D. Summary of insect conditions throughout the United States during 1921. 10¢.
 1107 D. Lead cable borer or short-circuit beetle in California. 15¢.
 *1154 D. Feeding habits of the Japanese beetle which influence its control. 5¢.
 *1225 D. Camphor thrips. 10¢.
 1243 D. Studies of Mexican bean beetle in the southeast. 20¢.
 *1324 D. Oviposition response of insects. 5¢.
 *1357 D. Strawberry rootworm, a new pest on greenhouse roses. 10¢.

Department Circulars:

- 274 DC. Dusting for cotton boll weevil. 5¢.

Leaflets:

- 2 L. Cutworms in the garden. 5¢.

Yearbook Separates:

- *704 Y. Practical use of insect enemies of injurious insects. 5¢.
 *786 Y. How weevils get into beans. 5¢.
 842 Y. Killing boll weevils with poison dust. 5¢.
 942 Y. Nemas and recent progress in nematology research. 5¢.

INSECTS: GRAIN, FORAGE, AND FIBER CROPS

(See also under name of grain, forage, etc.)

Farmers' Bulletins:

- 636 F. Chalcis fly in alfalfa seed. 5¢.
 725 F. Wireworms destructive to cereal and forage crops. 5¢.
 731 F. True army worm and its control. 5¢.
 739 F. Cutworms and their control in corn and other cereal crops. 5¢.
 747 F. Grasshopper control in relation to cereal and forage crops. 5¢.
 752 F. Fall army worm, or grass worm, and its control. 5¢.
 762 F. False chinch-bug and measures for controlling it. 5¢.
 835 F. How to detect insect outbreaks and save grain crops. 5¢.
 875 F. Rough-headed cornstalk beetle in Southern States and its control. 5¢.
 891 F. Corn-root aphid and methods of controlling it. 5¢.

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Farmers' Bulletins—Continued.

- 915 F. How to reduce weevil waste in southern corn. 5¢.
 971 F. Control of clover-flower midge. 5¢.
 1006 F. The wheat jointworm and its control. 5¢.
 1083 F. Hessian fly and how to prevent losses from it. 5¢.
 1156 F. Angoumois grain moth. 5¢.
 1217 F. Green bug or spring aphid, how to prevent its periodical outbreak. 5¢.
 1258 F. Webworms injurious to cereal and forage crops and their control. 5¢.
 1260 F. Stored-grain pests. 10¢.
 1329 F. Boll-weevil problem. 5¢.
 1498 F. Chinch bug, how to fight it. 10¢.
 1548 F. European corn borer, present status and methods of control. 10¢.
 1566 F. Sorghum midge, with control suggestions. 5¢.

Department Bulletins:

- *112 D. Oat aphid. 5¢.
 *113 D. Lesser bud moth. 5¢.
 *293 D. Grasshopper outbreak in New Mexico during summer of 1913. 5¢.
 *443 D. New Mexico range caterpillar and its control. 5¢.
 *689 D. Southern green plant bug. 10¢.
 734 D. Nematode galls as factor in marketing and milling wheat. 5¢.
 *779 D. The grain bug. 5¢.
 *808 D. Studies on life history and habits of jointworm flies of genus *Harmolita*, with recommendations for control. 5¢.
 *812 D. The clover and alfalfa seed chalcid fly. 10¢.
 *834 D. Black grain-stem sawfly of Europe in United States. 5¢.
 *841 D. The western grass-stem sawfly. 10¢.
 *872 D. Insect control in flour mills. 15¢.
 *891 D. Green June beetle. 20¢.
 *1008 D. Rate of multiplication of the Hessian fly. 5¢.
 1016 D. Bionomics of the chinch bug. 5¢.
 *1085 D. Broad-nosed grain weevil. 5¢.
 *1229 D. Stem nematode *tylenchus dipsaci* on wild hosts in Northwest. 5¢.
 *1313 D. Fumigation against grain weevils with various volatile organic compounds. 10¢.
 *1332 D. Emulsions of wormseed oil and of carbon disulfide for destroying larvae of the Japanese beetle in roots of perennial plants. 5¢.
 *1336 D. Biological studies of green clover worm. 5¢.
 1374 D. Studies of the pink bollworm in Mexico. 15¢.
 *1393 D. Granary weevil. 10¢.
 1397 D. Pink bollworm with special reference to steps taken by Department of Agriculture to prevent its establishment in United States. 10¢.
 1428 D. The cadelle. 10¢.

Technical Bulletins:

- 19 T. Parasites of pink bollworm in Hawaii. 5¢.
 31 T. Larger sod webworm. 5¢.
 34 T. The fall army worm. 25¢.
 53 T. Scouting, quarantine, and control for European corn borer, 1917-1926. 30¢.
 81 T. Hessian fly in California. 5¢.

Department Circulars:

- *172 DC. The range crane-flies in California. 5¢.
 *210 DC. Dispersion of the boll weevil in 1921. 5¢.
 266 DC. Dispersion of boll weevil in 1922. 5¢.
 *288 DC. Puss caterpillar and the effects of its sting on man. 5¢.
 363 DC. Japanese beetles. 25¢.

Circulars:

- 51 C. The chinch bug in relation to St. Augustine grass. 5¢.

Secretary's Office Circulars:

- *51 SC. Hessian fly situation in 1915. 5¢.

Leaflets:

- 12 L. The striped blister beetle on soy beans. 5¢.

Yearbook Separates:

- 1022 Y. Nemas sometimes aid man in his fight to control insect pests. 5¢.

INSECTS: HOUSEHOLD**Farmers' Bulletins:**

- 627 F. House centipede. 5¢.
 658 F. Cockroaches. 5¢.
 734 F. Flytraps and their operations. 5¢.
 740 F. House ants, kinds and methods of control. 5¢.
 754 F. The bedbug. 5¢.
 902 F. The silverfish, or "slicker," an injurious household insect. 5¢.
 1101 F. Argentine ant as a household pest. 5¢.
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 1346 F. Carpet beetles and their control. 5¢.

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Farmers' Bulletins—Continued.

- 1353 F. Clothes moths and their control. 5¢.
 1354 F. Yellow-fever mosquito. 5¢.
 1408 F. House fly and how to suppress it. 5¢.
 1472 F. Preventing damage by termites or white ants. 5¢.
 1570 F. Mosquito remedies and preventives. 5¢.

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- *200 D. Maggot trap in practical use, experiment in house-fly control. 5¢.
 *1098 D. Impounding water in a bayou to control breeding of malaria mosquitoes. 15¢.
 1231 D. Tests of methods of protecting woods against termites or white ants. 5¢.
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Technical Bulletins:

- 95 T. The meal worms. 10¢.

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- *61 SC. Important insects which may affect health of men or animals engaged in military operations. 5¢.

INSURANCE, FIRE AND CROP**Department Bulletins:**

- 530 D. Organization and management of farmers' mutual fire-insurance company. 5¢.
 786 D. Prevailing plans and practices among farmers' mutual fire-insurance companies. 5¢.
 840 D. A system of records for local farmers' mutual fire-insurance companies. 5¢.
 912 D. Hail insurance on farm crops in United States. 10¢.
 1043 D. Crop insurance; risks, losses and principles of protection. 5¢.

Department Circulars:

- 77 DC. Suggestions for a State law providing for the organization of farmers' mutual fire-insurance companies. 5¢.

Circulars:

- 54 C. Development and problems in farmers' mutual fire insurance. 5¢.

Yearbook Separates:

- *697 Y. Farmers' mutual fire insurance. 5¢.

INVENTORY OF SEEDS AND PLANTS IMPORTED

- | | |
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| *1 Nos. 1 to 1000, 1899. 5¢. | *60 July 1-Oct. 31, 1919. 20¢. |
| *2 Nos. 1001 to 1900, 1899. 5¢. | *61 Nov. 1-Dec. 31, 1919. 20¢. |
| *8 Nos. 3401 to 4350, 1901. 10¢. | *62 Jan. 1-Mar. 31, 1919. 20¢. |
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| *33 Oct.-Dec., 1912. 15¢. | *67 Apr. 1-June 30, 1921. 15¢. |
| *34 Jan.-Mar., 1913. 10¢. | *68 July 1-Sept. 30, 1921. 10¢. |
| *36 July-Sept. 1913. 15¢. | *69 Oct. 1-Dec. 31, 1921. 10¢. |
| *37 Oct.-Dec., 1913. 10¢. | *70 Jan. 1-Mar. 31, 1922. 5¢. |
| *39 Apr.-June, 1914. 25¢. | *71 Apr. 1-June 30, 1922. 10¢. |
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| *42 Jan.-Mar., 1915. 20¢. | *73 Oct. 1-Dec. 31, 1922. 10¢. |
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| *46 Jan.-Mar., 1916. 10¢. | 77 Oct. 1-Dec. 31, 1923. 5¢. |
| *47 Apr.-June, 1916. 15¢. | *78 Jan. 1-Mar. 31, 1924. 5¢. |
| *48 July-Sept., 1916. 10¢. | *79 Apr. 1-June 30, 1924. 10¢. |
| *49 Oct.-Dec., 1916. 25¢. | 80 July 1-Sept. 30, 1924. 5¢. |
| *50 Jan. 1-Mar. 31, 1917. 20¢. | 81 Oct. 1-Dec. 31, 1924. 5¢. |
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| *57 Oct. 1, Dec. 31, 1918. 10¢. | 88 July 1-Sept. 30, 1926. 10¢. |
| *58 Jan. 1, Mar. 31, 1919. 10¢. | 89 Oct. 1-Dec. 31, 1926. 10¢. |
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IRRIGATION**Farmers' Bulletins:**

- 813 F. Construction and use of farm weirs. 5¢.
 864 F. Practical information for beginners in irrigation. 5¢.
 1243 F. Border method of irrigation. 10¢.
 1348 F. Corrugation method of irrigation. 5¢.
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 1518 F. Orchard irrigation. 5¢.
 1529 F. Spray irrigation in Eastern States. 5¢.
 1556 F. Irrigation of small grain. 5¢.

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Department Bulletins:

- *10 D. Progress report of cooperative irrigation experiments at California University farm, Davis, Calif., 1909-1912. 5¢.
- 194 D. Flow of water in irrigation channels. 25¢.
- 376 D. Flow of water in wood-stave pipe. 25¢.
- *852 D. Flow of water in concrete pipe. 25¢.
- 854 D. Flow of water in drain tile. 25¢.
- *906 D. Use of concrete pipe in irrigation. 20¢.
- *1026 D. Irrigation in northern Colorado. 25¢.
- *1110 D. Farmers' short-box measuring flume. 5¢.
- 1340 D. Irrigation requirements of arable lands of Great Basin. 10¢.
- 1388 D. Farm-management problems on irrigated farms in hay and potato areas of the Yakima Valley, Wash. 15¢.
- 1421 D. Economic study of irrigated farming in Twin Falls County, Idaho. 15¢.

Technical Bulletins:

- 2 T. Irrigated crop rotations in western Nebraska. 5¢.
- 36 T. Irrigation requirements of arid and semiarid lands of Missouri and Arkansas River basins. 20¢.
- 47 T. Delivery of irrigation water. 10¢.
- 67 T. Silt in Colorado River and its relation to irrigation. 20¢.
- 82 T. Mutual irrigation companies. 10¢.

Secretary's Office Circulars:

- 124 SC. Irrigation under the provisions of the Carey Act. 5¢.

Yearbook Separates:

- *703 Y. Pumping for irrigation on the farm. 5¢.
- 950 Y. Alkali in irrigated districts. 5¢.
- 1016 Y. Irrigation farming often turns on ways of applying water. 5¢.

LANDS**Department Bulletins:**

- 874 D. Farm land values in Iowa. 10¢.
- *1224 D. Relation of land income to land value. 15¢.

Yearbook Separates:

- *771 Y. Arable land in the United States. 5¢.
- *896 Y. Utilization of our lands for crops, pasture, and forests. 15¢.

LAWS, RULES, REGULATIONS, ETC.**Secretary's Office Circulars:**

- *58 SC. Reports of Veranus A. Moore, Mazyck P. Ravenel, and William T. Sedgwick upon Federal meat inspection. 5¢.
- 116 SC. General regulations governing licenses operating stockyards for handling or dealing in livestock in or in connection with stockyards. 5¢.
- 128 SC. Regulations governing entrance to veterinary inspector examinations, promulgated by Secretary of Agriculture, etc., effective July 1, 1921. 5¢.

Miscellaneous Circulars:

- *22 MC. Naval stores act, and regulations for its enforcement, effective Mar. 1, 1924. 5¢.
- Supplements 1 and 3 to above publication, 5¢ each.
- 67 MC. Warehouseman and United States warehouse act. 5¢.

Yearbooks Separate:

- *714 Y. Meat-inspection service of Department of Agriculture. 15¢.

Miscellaneous:**Food, Drug, and Insecticide Administration Service and Regulatory Announcements****Caustic poison:**

- No. 1. Regulations for enforcement of caustic act. 1927. 5¢.
- No. 2. Acceptable antidotes for dangerous caustic or corrosive substances covered by Federal caustic act. 1928. 5¢.

Food and drug:

- No. 1. Regulations for enforcement of the Federal food and drugs act. 1927. 5¢.
- No. 2. Definitions and standards for food products. 1927. 5¢.
- Supplements 1 and 2 to above publication, 5¢. each.
- No. 3. Certification of coal-tar food colors. 1927. 5¢.
- Supplement 1. 5¢.

Import milk:

- No. 1. Regulations for enforcement of the Federal import milk act. 1927. 5¢.

LEATHER, HIDES, TANNING**Farmers' Bulletins:**

- 1055 F. Country hides and skins; skinning curing, and marketing. 10¢.
- 1334 F. Home tanning of leather and small fur skins. 5¢.
- 1523 F. Leather shoes, selection and care. 5¢.

Department Bulletins:

- 1168 D. Wearing qualities of shoe leather. 10¢.

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LIVESTOCK

Farmers' Bulletins:

- 1069 F. Tuberculosis in livestock, detection, control, and eradication. 10¢.
 1428 F. Saving livestock from starvation on southwestern ranges. 5¢.
 1502 F. Cooperative livestock shipping associations. 5¢.

Department Bulletins:

- 589 D. Twenty-eight-hour law regulating the interstate transportation of livestock, its purpose, requirement, and enforcement. 10¢.
 1150 D. Accounting records and business methods for livestock shipping associations. 10¢.
 *1360 D. Market classes and grades of livestock. 15¢.
 *68 T. Ranch organization and methods of livestock production in the Southwest. 25¢.

Department Circulars:

- *228 DC. Livestock industry in South America. 5¢.
 235 DC. Utility value of purebred livestock. 10¢.

Miscellaneous Circulars:

- *14 MC. State sanitary requirements governing admission of livestock. 15¢.
 33 MC. Some tested methods for livestock improvements. 5¢.

Miscellaneous Publications:

- 28 MP. Livestock review for 1927. 10¢.

Leaflets:

- 1 L. Ways to save young livestock. 5¢.

Yearbook Separates:

- *810 Y. Toll of tuberculosis in livestock. 5¢.
 *820 Y. Livestock drought relief work in 1919. 5¢.
 845 Y. Hunting down stock killers. 5¢.
 *866 Y. Livestock associations. 5¢.

Miscellaneous:

- Effect of smelter fumes upon the livestock industry in the Northwest.

MARKETING, GENERAL

Farmers' Bulletins:

- 1050 F. Handling and loading southern new potatoes. 5¢.
 1210 F. Measuring and marketing farm timber. 10¢.
 1266 F. Preparing peaches for market. 5¢.
 1290 F. Bulk handling of grain. 5¢.
 1291 F. Preparation of fresh tomatoes for market. 5¢.
 1308 F. Marketing the cowpea-seed crop. 5¢.
 1316 F. Marketing the early potato crop. 5¢.
 1377 F. Marketing poultry. 5¢.
 1378 F. Marketing eggs. 5¢.
 1434 F. Standard baskets for fruits and vegetables. 5¢.
 1457 F. Packing apples in boxes. 5¢.
 1551 F. Marketing farm produce by parcel post. 10¢.
 1558 F. Preparation of eastern grapes for market. 5¢.
 1560 F. Preparing strawberries for market. 5¢.
 1578 F. Marketing late-crop potatoes. 10¢.
 1579 F. Containers used in shipping fruits and vegetables. 10¢.

Department Bulletins:

- *266 D. Outlets and methods of sale for shippers of fruits and vegetables. 5¢.
 *267 D. Methods of wholesale distribution of fruits and vegetables on large markets. 5¢.
 274 D. Factors governing successful shipment of red raspberries from Puyallup Valley. 10¢.
 *601 D. Handling and precooling of Florida lettuce and celery. 10¢.
 *688 D. Marketing berries and cherries by parcel post. 5¢.
 *690 D. Marketing practices of Wisconsin and Minnesota creameries. 5¢.
 977 D. Marketing hay at country points. 5¢.
 979 D. Marketing hay through terminal markets. 10¢.
 980 D. Inspection and grading of hay. 5¢.
 1002 D. Open types of public markets. 5¢.
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 1124 D. Marketing of mill feed. 5¢.
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 *1416 D. Marketing barreled apples. 20¢.
 1441 D. Methods and practices of retailing meat. 10¢.

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Department Bulletins—Continued.

- 1442 D. Margins, expenses, and profits in retailing meat. 10¢.
 1443 D. Consumer habits and preferences in purchase and consumption of meat. 10¢.
 1445 D. Services in cotton marketing. 10¢.
 1470 D. Market classes and grades [and also cuts] of dressed lamb and mutton. 15¢.
 1479 D. Speculative transactions in 1926 May wheat future. 15¢.

Technical Bulletins:

- 73 TB. Some factors affecting demand for milk and cream in metropolitan area of New York. 15¢.
 79 TB. Major transactions in 1926 December wheat future. 10¢.

Department Circulars:

- 145 DC. Australia and New Zealand as markets for American fruit. 5¢.
 146 DC. Markets for American fruit in China, with recommendations for American shippers. 10¢.
 *300 DC. Commercial cuts of meat. 5¢.

Miscellaneous Circulars:

- 35 MC. Bibliography or marketing of agricultural products. 10¢.
 *54 MC. Efficient methods of retailing meat. 10¢.
 63 MC. Inspection stamp as guide to wholesale meat. 5¢.

Yearbook Separates:

- *636 Y. Retail public markets. 5¢.
 663 Y. How Hawaii helps her farmers to market their produce. 5¢.
 *701 Y. Possibilities of market-train service. 5¢.
 *726 Y. Rest rooms for women in marketing centers. 5¢.
 797 Y. How to use market stations. 5¢.
 808 Y. Marketing and purchasing demonstrations in the South. 5¢.
 *809 Y. Federal supervision of livestock markets. 5¢.
 *815 Y. What the farmer should expect from the seedsman. 5¢.
 *860 Y. The farmers' interest in foreign markets. 5¢.
 873 Y. Wheat production and marketing. 10¢.
 879 Y. The dairy industry. 15¢.
 890 Y. Farm operations. 5¢.
 894 Y. The sheep industry. 15¢.
 916 Y. Hay. 20¢.
 917 Y. Poultry industry. 20¢.
 *930 Y. Marketing fruits and vegetables. 20¢.

MARKETING, COOPERATIVE**Farmers' Bulletin:**

- 1144 F. Cooperative marketing. 5¢.
 1502 F. Cooperative livestock shipping associations. 5¢.

Department Bulletins:

- *394 D. Survey of typical cooperative stores in United States. 10¢.
 *541 D. Cooperative organization by-laws. 5¢.
 937 D. Cooperative grain marketing, comparative study of methods in United States and Canada. 5¢.
 1106 D. Legal phases of cooperative associations. 15¢.
 1237 D. Organization and development of a cooperative citrus-fruit marketing agency. 10¢.
 1261 D. Operating methods and expense of cooperative citrus-fruit marketing agencies. 5¢.
 1266 D. Agricultural cooperation in Denmark. 15¢.
 business organizations. 15¢.
 *1302 D. Development and present status of farmers' cooperative
 1392 D. Cooperative marketing of cotton. 10¢.
 1414 D. Management problems of cooperative associations marketing fruits and vegetables. 10¢.

Technical Bulletins:

- 40 T. Agricultural cooperative associations, marketing and purchasing, 1925. 20¢.
 57 T. Cooperative marketing of livestock in United States by terminal association. 25¢.
 63 T. Cooperative marketing of grain in western Canada. 20¢.

Department Circulars:

- 397 DC. Farmers' cooperative business study, the Staple Cotton Cooperative Association. 10¢.
 403 DC. Business set-up of a cooperative marketing association. 5¢.

Circulars:

- 10 C. Joint use of sales organization by 2 cooperative associations. 10¢.

Miscellaneous Circulars:

- *10 MC. Grain futures act, 1922. 10¢.
 51 MC. Farmer and United States warehouse act. 5¢.
 97 MC. Cooperation in agriculture, selected and annotated, reading list, with special reference to purchasing, marketing, and credit, including only works printed in English. 15¢.

Miscellaneous Publications:

- 14 MP. Pooling as practiced by cooperative marketing associations. 5¢.

Yearbook Separates:

- *699 Y. Federated cooperative cheese manufacturing and marketing association. 5¢.

MELONS

Farmers' Bulletins:

- 707 F. Commercial grading, packing, and shipping of cantaloupes. 5¢.
 1145 F. Handling and transportation of cantaloupes. 5¢.
 1394 F. Watermelons. 5¢.
 1468 F. Muskmelons. 10¢.
 1499 F. The melon aphid and its control. 5¢.

Department Bulletin:

- *401 D. Marketing and distribution of western muskmellons in 1915. 15¢.
 *1250 D. Relation between composition of California cantaloupes and their commercial maturity. 5¢.

Department Circulars:

- 217 DC. Anthracnose of muskmelons. 5¢.

MUSHROOMS AND OTHER FUNGI

Farmers' Bulletins:

- 789 F. Mushroom pests and how to control them. 5¢.
 796 F. Some common edible and poisonous mushrooms. 5¢.
 1587 F. Mushroom culture for amateurs. 5¢.

Department Bulletins:

- *175 D. Mushrooms and other common fungi. 30¢.

Circulars:

- 27 C. Some mushroom diseases and their carriers. 5¢.

NORTH AMERICAN FAUNA

This is a technical series of the Bureau of Biological Survey devoted principally to revisions of genera of mammals and to biological surveys of States and other major areas. Of interest chiefly to professional biologists. Following is a list of those available on June 1, 1929.

- *27. Biological investigations of Athabaska-Mackenzie region. \$1.25.
 *34. Revision of spiny pocket mice. 10¢.
 *36. Revision of American harvest mice, genus *Reithrodontomys*. 20¢.
 43. Rice rats of North America. 20¢.
 45. Biological survey of Alabama. 25¢.
 *46. Biological survey of Pribilof Islands, Alaska. 1. Birds and mammals; 2. Insects, arachnids, and chilopods. 40¢.
 *47. Revision of American pikas. 15¢.
 48. Voles of the genus *Phenacomys*. 20¢.
 49. A biological survey of North Dakota. 60¢.
 50. Revision of the American Lemming mice. 10¢.
 *51. A Taxonomic review of the American long-tailed shrews. 50¢.

NUT CULTURE

Farmers' Bulletins:

- 157 F. Propagation of plants. 5¢.
 700 F. Pecan culture, with special reference to propagation and varieties. 5¢.
 995 F. Preventing wood rot in pecan trees. 5¢.
 1129 F. Diseases of southern pecan. 5¢.
 1364 F. Important pecan insects and their control. 10¢.
 1501 F. Nut-tree propagation. 10¢.

Department Bulletins:

- *611 D. Walnut blight in eastern United States. 5¢.
 *992 D. Walnut husk-maggot. 5¢.
 *1038 D. Pecan rosette, its histology, cytology, and relations to other chlorotic diseases. 25¢.
 *1102 D. Kernel-spot of pecan and its cause. 5¢.
 *1282 D. Almond varieties in United States. 30¢.
 *1303 D. Pecan nut case-borer. 5¢.
 1305 D. Utilization of almonds for various food products. 5¢.
 1378 D. Relation of soil conditions and orchard management to rosette of pecan trees. 10¢.

Department Circulars:

- 386 DC. Commercial control of pecan scab. 5¢.
 412 DC. Dusting with monohydrated copper sulphate and lime for control of pecan scab. 5¢.

Yearbook Separates:

- 1004 Y. Nuts promise to be profitable crop in Northern States. 5¢.

OATS

Farmers' Bulletins:

- 892 F. Spring oat production. 5¢.
 1119 F. Fall-sown oats. 5¢.
 1581 F. Oats in the North-Central States. 5¢.

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Department Bulletins:

- *99 D. Tests of selections from hybrids and commercial varieties of oats. 5¢.
- *629 D. Greenhouse experiments on rust resistance of oat varieties. 5¢.
- *1058 D. Sterility of oats. 5¢.
- *1275 D. Varietal susceptibility of oats to loose and covered smuts. 10¢.
- *1343 D. Improved oat varieties for Corn Belt. 10¢.
- 1351 D. What makes price of oats. 10¢.
- *1481 D. Experiments with fall-sown oats in the South. 10¢.

Department Circulars:

- *193 DC. Fulghum oats. 5¢.
- *324 DC. Markton, oat variety immune from covered smut. 5¢.
- 353 DC. Improved oat varieties for New York and adjacent States. 5¢.

Miscellaneous Publications:

- 21 MP. Formaldehyde seed treatment for oat smuts. 5¢.

Yearbook Separates:

- 1009 Y. Oats of new and improved sorts may now be registered. 5¢.

Onions**Farmers' Bulletins:**

- 354 F. Onion Culture. 5¢.
- 434 F. Home production of onion seeds and sets. 5¢.
- 1060 F. Onion diseases and their control. 5¢.

Department Bulletins:

- 1283 D. Marketing and distribution of American-grown Bermuda onions. 10¢.
- 1325 D. Marketing onions. 15¢.

Department Circulars:

- 415 DC. Some effects of freezing on onions. 5¢.

PAPER AND PULP**Department Bulletins:**

- *309 D. Zacaton as paper-making material. 5¢.
- 322 D. Utilization of American flax straw in paper and fiber-board industry. 5¢.
- *404 D. Hemp hurds as paper-making material. 5¢.
- 1241 D. How United States can meet its present and future pulp-wood requirements. 15¢.
- 1485 D. Suitability of American woods for paper pulp. 20¢.

Miscellaneous Publications:

- *41 MP. Pulp-timber resources of southeastern Alaska. 15¢.

PEACHES**Farmers' Bulletins:**

- 917 F. Growing peaches—sites and cultural methods. 5¢.
- 918 F. Peach varieties and their classification. 5¢.
- 1246 F. Peach borer, how to prevent or lessen its ravages; the paradichlorobenzene treatment. 5¢.
- 1266 F. Preparing peaches for market. 5¢.
- 1527 F. Peach brown rot and scab. 5¢.
- 1557 F. Insects attacking the peach in the South, and how to control them. 10¢.

Department Bulletins:

- *298 D. Peach supply and distribution in 1914. 5¢.
- *543 D. Control of peach bacterial spot in southern orchards. 5¢.
- *796 D. Use of toxic gases as a possible means of control of peach-tree borer. 5¢.
- 806 D. Peaches, production estimates and important commercial districts and varieties. 10¢.
- *1482 D. Experiments on control of plum curculio, brown rot, and scab, attacking peach in Georgia. 5¢.

Technical Bulletins:

- *58 T. Paradichlorobenzene experiments in the South for peach-borer control. 10¢.

Department Circulars:

- *216 DC. Controlling the curculio, brown rot, and scab in the peach belt of Georgia. 10¢.
- 395 DC. Oriental peach moth. 10¢.
- *420 DC. Peach situation in Southern States. 15¢.

Yearbook Separates:

- 1015 Y. Peach orchards in Georgia menaced by phony disease. 5¢.

PEANUTS**Farmers' Bulletins:**

- 1127 F. Peanut growing for profit. 5¢.

Department Bulletins:

- *1401 D. Marketing peanuts. 25¢.
- 1473 D. Effect of planting distances and time of shelling seed in peanut yields. 5¢.

Department Circulars:

128 DC. Manufacture and use of peanut butter. 5¢.

PEARS**Farmers' Bulletins:**

482 F. Pear and how to grow it. 5¢.

Department Bulletins:

*173 D. Life history and habits of pear thrips in California. 15¢.

*822 D. Pears, production estimates and important commercial districts and varieties. 5¢.

PERSONNEL**Miscellaneous Circulars:**

*4 MC. List of workers in subjects pertaining to agriculture, 1922-23; Pt. 2, State agricultural colleges and experiment stations. 15¢.

*30 MC. Directory of field activities of Bureau of Plant Industry. 10¢.

*34 MC. List of workers in subjects pertaining to agriculture in State agricultural colleges and experiment stations, 1924-25. 15¢.

*45 MC. List of technical workers in Department of Agriculture, 1924-25. 15¢.

*58 MC. Workers in subjects pertaining to agriculture in State agricultural colleges and experiment stations, 1925-26. 15¢.

*73 MC. List of technical workers in Department of Agriculture, 1926. 15¢.

*80 MC. Directory of field activities of Bureau of Entomology, issued December, 1926. 5¢.

*87 MC. Workers in subjects pertaining to agriculture in State agricultural colleges and experiment stations, 1923-1927. 20¢.

Miscellaneous Publications:

1 MP. Directory of field activities of Bureau of Plant Industry. 10¢.

*5 MP. List of technical workers in Department of Agriculture and outline of functions of major branches of the department, 1927. 15¢.

*12 MP. Workers in subjects pertaining to agriculture in State agricultural colleges and experiment stations. 20¢.

32 MP. List of technical workers in Department of Agriculture and outline of department functions, 1928. 20¢.

*43 MP. List of workers in State agricultural colleges and experiment stations 1923-29. 20¢.

PLANTS: BREEDING, PROPAGATION, PRUNING**Farmers' Bulletins:**

157 F. Propagation of plants. 5¢.

181 F. Pruning.

1369 F. Bridge grafting. 5¢.

Department Bulletins:

*104 D. Thrips as pollinators of beet flowers. 5¢.

*137 D. Some distinctions in our cultivated barleys with reference to their use in plant breeding. 5¢.

*291 D. Breeding millet and sorgo for drought adaption. 5¢.

*1134 D. Self-fertilization and cross-fertilization in Pima cotton. 10¢.

*1354 D. Productiveness of successive generations of self-fertilized lines of corn and of crosses between them. 10¢.

1396 D. Comparison of maize-breeding methods. 5¢.

1403 D. Segregation and correlated inheritance in marquis and hard federation crosses, with factors for yield and quality of spring wheat in Montana. 15¢.

Department Circulars:

310 DC. Solar propagating frame for rooting citrus and other sub-tropical plants. 5¢.

*323 DC. How to collect, label, and pack living plant material for long-distant shipment. 5¢.

383 DC. Search in foreign countries for blight-resistant chestnuts and related tree crops. 5¢.

387 DC. Pollination of the avocado. 5¢.

Yearbook Separates:

687 Y. plant introduction gardens of Department of Agriculture. 5¢.

852 Y. Flowering and fruiting of plants as controlled by the length of day. 5¢.

*967 Y. Experiment station results in food-crop improvement. 5¢.

997 Y. Explorer for alien plants runs many risks in far lands. 5¢.

PLANTS AND HERBS: MEDICINAL**Farmers' Bulletins:**

304 F. Growing and curing hops. 5¢.

613 F. Goldenseal under cultivation. 5¢.

663 F. Drug plants under cultivation. 10¢.

736 F. Ginseng diseases and their control. 5¢.

1184 F. Ginseng culture. 5¢.

1231 F. Drying crude drugs. 5¢.

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Farmers' Bulletins—Continued.

- 1555 F. Peppermint and spearmint as farm crops. 5¢.
 *282 D. Study of soft resins in sulphured and unsulphured hops in cold and in open storage. 5¢.

Department Bulletins:

- *26 D. American medicinal flowers, fruits, and seeds. 5¢.
 *372 D. Commercial production of thymol from horsemint. 5¢.
 *568 D. Presence of arsenic in hops. 5¢.
 867 D. Castor-oil industry. 10¢.
 *1057 D. Chaulmoogra tree and some related species; survey conducted in Siam, Burma, Assam, and Bengal. 15¢.

Circulars:

- 46 C. Methods of collecting and preserving pollen for use in treatment of hay fever. 5¢.

Yearbook Separates:

- *734 Y. Production of drug-plant crops in United States. 5¢.

PLANTS, POISONOUS**Farmers' Bulletins:**

- 988 F. Larkspur or "poison weed." 5¢.
 1166 F. Poison ivy and poison sumac, and their eradication. 5¢.
 1273 F. Stock-poisoning death camas. 5¢.

Department Bulletins:

- *405 D. Lupines as poisonous plants. 10¢.
 710 D. Stagger grass as poisonous plant. 5¢.
 800 D. Whorled milkweed as poisonous plant. 15¢.
 942 D. Poisonous properties of the whorled milkweeds, *Asclepias pumila* and *A. verticillata* var. *geyeri*. 10¢.
 *947 D. Western sneezeweed as a poisonous plant. 10¢.
 969 D. The Mexican whorled milkweed as a poisonous plant. 5¢.
 *1012 D. Death camas species *Zygadenus paniculatus* and *Z. elegans*, as poisonous plants. 10¢.
 *1212 D. Woolly-pod milkweed (*Asclepias eriocarpa*) as poisonous plant. 5¢.
 *1240 D. Meadow death camas (*Zygadenus venenosus*) as a poisonous plant. 5¢.
 1245 D. Stock-poisoning plants of range. 35¢.
 *1274 D. Cocklebur (species of *Xanthium*) as poisonous plants. 10¢.
 *1376 D. Nuttall's death camas (*Zygadenus nuttallii*) as poisonous plant. 5¢.
 *1391 D. Rayless goldenrod (*Aplopappus heterophyllus*) as a poisonous plant. 5¢.

Technical Bulletins:

- 22 T. Wild tobacco (*Nicotiana trigonophylla* dunal and *Nicotiana attenuata* torrey) as stock-poisoning plants. 10¢.
 29 T. Coyotillo (*Karwinskia humboldtiana*) as poisonous plant. 10¢.

Department Circulars:

- *81 DC. *Astragalus tetrapetereus*, new poisonous plant of Utah and Nevada. 5¢.
 101 DC. The whorled milkweed, plant poisonous to live-stock. 5¢.
 *272 DC. Woolly-pod milkweed, a dangerous stock-poisoning plant. 5¢.
 *279 DC. Greasewood as a poisonous plant. 5¢.
 283 DC. Livestock poisoning by cocklebur. 5¢.

POTATOES, IRISH**Farmers' Bulletins:**

- 847 F. Potato-storage houses. 5¢.
 1050 F. Handling and loading southern new potatoes. 5¢.
 1064 F. Production of main-crop potatoes. 5¢.
 1091 F. Protection of potatoes from cold in transit, lining and loading cars. 5¢.
 1190 F. How to grow an acre of potatoes. 5¢.
 1205 F. Potato production in the South. 5¢.
 1316 F. Marketing the early potato crop. 5¢.
 1367 F. Control of potato-tuber diseases. 10¢.
 1436 F. Why potatoes run out. 5¢.
 1462 F. The potato leafhopper and how to control it. 5¢.
 1578 F. Marketing late-crop potatoes. 10¢.

Department Bulletins:

- 176 D. Group classification of varietal descriptions of some American potatoes. 20¢.
 577 D. Experiments in the control of potato leak. 5¢.
 *895 D. Freezing point of potatoes as determined by the thermoelectric method. 5¢.
 *916 D. Freezing injury to potatoes when undercooled. 5¢.
 *998 D. Effect of borax in fertilizer on the growth and yield of potatoes. 5¢.
 *1146 D. Influence of copper sprays on yield and composition of Irish potato tubers. 5¢.
 1156 D. Investigation of potato wart. 10¢.

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Department Bulletins—Continued.

- *1188 D. Costs and farm practices in producing potatoes on 461 farms in Minnesota, Wisconsin, Michigan, New York, and Maine for the crop year 1919. 10¢.
- 1195 D. Sterilities of wild and cultivated potatoes with reference to breeding from seed. 10¢.
- *1248 D. Size of potato sets, comparisons of whole and cut seed. 10¢.
- *1465 D. Method of growing bacteriologically sterile potato plants. 15¢.

Technical Bulletins:

- 5 T. Source, character, and treatment of potato sets. 10¢.
- 7 T. Origin and distribution of the commercial potato crop. 15¢.
- 27 T. Freezing injury to potatoes. 10¢.
- 56 T. Factors of spread and repression in potato wart. 5¢.
- 62 T. Factors in inception and development of Fusarium rot in stored potatoes. 15¢.

Department Circulars:

- *32 DC. Potato wart, a dangerous new disease. 5¢.
- 214 DC. Fusarium tuber rot of potatoes. 5¢.
- 220 DC. Late-blight tuber rot of potato. 5¢.
- *238 DC. United States grades for potatoes. 5¢.
- 281 DC. Potato brown rot. 5¢.

Secretary's Office Circulars:

- 48 SC. Marketing Maine potatoes. 5¢.

POTATOES, SWEET**Farmers' Bulletins:**

- 999 F. Sweet potato growing. 5¢.
- 1059 F. Sweet-potato diseases. 5¢.
- 1267 F. Sweet-potato storage in flue-heated tobacco barns. 5¢.
- 1442 F. Storage of sweet potatoes. 5¢.

Department Bulletins:

- *1021 D. Group classification and varietal description of American varieties of sweet potatoes. 30¢.
- 1158 D. Production of sirup from sweet potatoes. 10¢.
- 1206 D. Marketing southern-grown sweet potatoes. 10¢.

POULTRY AND EGGS**Farmers' Bulletins:**

- 684 F. Squab raising. 5¢.
- 697 F. Duck raising. 5¢.
- 767 F. Goose raising. 5¢.
- 801 F. Mites and lice on poultry. 5¢.
- 849 F. Capons and caponizing. 5¢.
- 1070 F. Fowl tick, and how premises may be freed from it. 5¢.
- 1200 F. Tuberculosis of fowls. 5¢.
- 1337 F. Diseases of poultry. 5¢.
- 1377 F. Marketing poultry. 5¢.
- 1378 F. Marketing eggs. 5¢.
- 1391 F. The guinea fowl. 5¢.
- 1409 F. Turkey raising. 5¢.
- 1506 F. Breeds of chickens: I. American, Asiatic, English, and Mediterranean classes. 10¢.
- 1507 F. Standard breeds and varieties of chickens: II. Continental European, Oriental, and miscellaneous classes. 10¢.
- 1508 F. Poultry keeping in back yards. 10¢.
- 1524 F. Farn poultry raising. 5¢.
- 1538 F. Incubation and brooding of chickens. 5¢.
- 1541 F. Feeding chickens. 5¢.
- 1554 F. Poultry houses and fixtures. 10¢.

Department Bulletins:

- 17 D. Refrigeration of dressed poultry in transit. 10¢.
- *391 D. Accuracy in commercial grading of opened eggs. 15¢.
- *657 D. Wheatless ration for the rapid increase of flesh on young chickens. 5¢.
- *664 D. Prevention of breakage of eggs in transit when shipped in car lots. 20¢.
- *775 D. Commercial preservation of eggs by cold storage. 10¢.
- 846 D. Examination of frozen-egg products and interpretation of results. 10¢.
- *939 D. Turkey an important factor in spread of gapeworms. 5¢.
- 1385 D. Poultry and egg industry in Europe. 15¢.

Technical Bulletins:

- 60 T. B. Ineffectiveness of internal medication of poultry for control of external parasites. 5¢.

Department Circulars:

- 55 DC. How to load cars of eggs. 5¢.
- 74 DC. Points for egg breakers, how to break eggs for freezing. 5¢.
- 391 DC. Method of packing and of buffing and bracing cases of eggs in carload shipments. 5¢.

Miscellaneous Circulars:

- 42 MC. How to pick chickens. 5¢.

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Yearbook Separates:

- *552 Y. Effect of present method of handling eggs on industry and product. 5¢.
- *647 Y. Egg and poultry demonstration car work in reducing our \$50,000,000 waste in eggs. 5¢.
- 917 Y. Poultry industry. 20¢.
- 986 Y. Poultry-disease toll indicates necessity of control measures. 5¢.
- 980 Y. Poultry roundworms vary much in size and mode of living. 5¢.

Miscellaneous:

- Candling and Preserving Eggs. (G-25.)

RATS, RODENTS, AND OTHER MAMMALS**Farmers' Bulletins:**

- 525 F. Raising guinea pigs. 5¢.
- 702 F. Cottontail rabbits in relation to trees and crops. 5¢.
- 1247 F. American moles as agricultural pests and as fur producers. 5¢.
- 1397 F. Mouse control in field and orchard. 5¢.
- 1533 F. Rat control. 5¢.

Department Bulletins:

- *915 D. The toxicity of barium carbonate to rats. 5¢.
- *1023 D. Relative toxicity of strychnine to the rat. 5¢.
- 1091 D. Life history of kangaroo rat. 15¢.
- *1227 D. Damage to range grasses by Zuni prairie dog. 10¢.
- *1395 D. Bats in relation to production of guano and destruction of insects. 5¢.

Leaflets:

- 21 L. Woodchuck control in the Eastern States. 5¢.

Yearbook Separates:

- *708 Y. Destroying rodent pests on the farm. 5¢.
- 725 Y. House rat, most destructive animal in the world. 5¢.
- 823 Y. Trapping on the farm. 5¢.
- 855 Y. Death to the rodents. 5¢.

RECLAMATION PROJECTS AND EXPERIMENTS**Department Bulletins:**

- *33 D. Cereal experiments at Dickinson, N. Dak. 10¢.
- *133 D. Experiments with crops under fall irrigation at Scottsbluff Reclamation Project Experimental Farm. 5¢.
- *135 D. Experiments in production of crops on alkali land in Huntley reclamation project, Montana. 5¢.
- *162 D. Horticultural experiments in San Antonio Field Station, Texas. 5¢.
- *270 D. Cereal experiments at Williston station. 10¢.
- *297 D. Cereal investigations on Belle Fourche Experiment Farm. 10¢.
- *398 D. Cereal experiments at Judith Basin substation, Moccasin, Mont. 10¢.
- *402 D. Cereal experiments at Akron Field Station, Colo. 10¢.
- *430 D. Cereal experiments on Cheyenne Experiment Farm, Archer, Wyo. 10¢.
- *546 D. Effect of fall irrigation on crop yields at Belle Fourche, S. Dak. 5¢.
- *1039 D. Experiments with cereals on the Belle Fourche Experiment Farm, Newell, S. Dak. 15¢.
- *1172 D. Cereal experiments at Chico, Calif. 10¢.
- 1257 D. Land reclamation policies in United States. 5¢.
- *1287 D. Experiments with cereals at Akron (Colo.) Field Station in 15-year period 1908 to 1922, inclusive. 15¢.
- *1301 D. Report of Northern Great Plains Field Station for 10-year period 1913-1922, inclusive. 15¢.
- *1304 D. Crop rotation and cultural methods at Akron (Colo.) Field Station. 5¢.
- 1306 D. Work of Sheridan Field Station for 7 years from 1917 to 1923, inclusive. 5¢.
- *1309 D. Experiments with small grains on Arlington Experiment Farm. 10¢.
- 1310 D. Experiments with fallow in north-central Montana. 5¢.
- 1337 D. Work on Northern Great Plains Field Station in 1923. 5¢.

Technical Bulletins:

- 14 T. Cereal experiments at Fort Hays Branch Station, Hays, Kans., 1912 to 1923. 15¢.
- 17 T. Work of United States Dry-Land Field Station, Ardmore, S. Dak., 1912-1925. 15¢.

Department Circulars:

- *60 DC. Work on the Belle Fourche reclamation project experiment farm in 1918. 5¢.
- *73 DC. Work of the San Antonio experiment farm in 1918. 5¢.
- *75 DC. Work of the Yuma Reclamation Project Experiment Farm in 1918. 10¢.

Department Circulars—Continued.

- 80 DC. Work in 1918 of the Newlands (formerly the Truckee-Carson) Reclamation Project Experiment Farm. 5¢.
- *86 DC. Work of the Huntley Reclamation Project Experiment Farm in 1918. 5¢.
- *110 DC. Work of the Umatilla Reclamation Project Experiment Farm in 1918 and 1919. 5¢.
- 136 DC. Work of Newlands Reclamation Project Experiment Farm in 1919. 5¢.
- *147 DC. Work of Huntley Reclamation Project Experiment Farm in 1919. 5¢.
- 173 DC. Work of Scottsbluff Reclamation Project Experimental Farm in 1918 and 1919. 5¢.
- *204 DC. Work of the Huntley Reclamation Project Experiment Farm in 1920. 5¢.
- *209 DC. Work of San Antonio Experiment Farm in 1919 and 1920. 10¢.
- *221 DC. Work of Yuma Reclamation Project Experiment Farm in 1919 and 1920. 10¢.
- *267 DC. Work of Newlands Reclamation Project Experiment Farm in 1920 and 1921. 5¢.
- *275 DC. Work of Huntley Reclamation Project Experiment Farm in 1921. 5¢.
- *277 DC. Crop tests at cooperative testing station, Sacaton, Ariz. 10¢.
- *289 DC. Work of Scottsbluff Experiment Farm in 1920 and 1921. 5¢.
- 330 DC. Work of Huntley Reclamation Project Experiment Farm in 1922. 5¢.
- *339 DC. Work of Belle Fourche Reclamation Experiment Farm, 1919-1922. 10¢.
- *342 DC. Work of Umatilla Reclamation Project Experiment Farm in 1920, 1921, 1922. 5¢.
- *352 DC. Work of Newlands Reclamation Project Experiment Farm in 1922 and 1923. 5¢.
- 369 DC. Work of the Huntley field station in 1923 and 1924. 10¢.
- 372 DC. Agricultural investigations at United States Field Station, Sacaton, Ariz., 1922, 1923, and 1924. 10¢.
- 417 DC. Work of Belle Fourche field station in 1923, 1924, and 1925. 10¢.
- *422 DC. Work of Umatilla field station in 1923, 1924, and 1925. 5¢.

Circulars:

- 5 C. Work of Scottsbluff field station, 1922 to 1925. 10¢.

Yearbook Separates:

- 690 Y. Agriculture on Government reclamation projects. 5¢.

REPORTS AND SURVEYS**Department Bulletins:**

- 1234 D. Agricultural survey of Europe; Danube Basin, pt. 1. 15¢.
- 1399 D. Agricultural survey of Europe: Germany. 20¢.
- 1409 D. Agricultural survey of South America: Argentina and Paraguay. 20¢.

Technical Bulletins:

- 37 T. Agricultural survey of Europe: France. 25¢.

Yearbook Separates:

- *875 Y. The year in agriculture. Report of the Secretary, 1921. 10¢.
- 883 Y. The year in agriculture. Report of the Secretary, 1922. 10¢.
- *892 Y. The year in agriculture. Report of the Secretary, 1923. 15¢.
- 913 Y. The year in agriculture. Report of the Secretary, 1924. 20¢.
- 919 Y. The year in agriculture. Report of the Secretary, 1925. 15¢.
- *928 Y. The year in agriculture. Report of the Secretary, 1926. 20¢.
- 1023 Y. The year in agriculture. Report of the Secretary, 1927. 10¢.

Miscellaneous:

- *70 R. Exhaustion and abandonment of soils, testimony of Milton Whitney before Industrial Commission. 5¢.
- *89 R. Durability and economy in papers for permanent records, including specifications. 15¢.
- *95 R. Agricultural possibilities of Canal Zone. 30¢.
- *97 R. Influence of vegetables greened with copper salts on nutrition and health of man. 50¢.
- *99 R. Classification of Cryphalinae, with description of new genera and species. 15¢.
- *108 R. Acarina or mites. 30¢.
- *114 R. Some public and economic aspects of the lumber industry; Studies of lumber industry, pt. 1. 25¢.
- *115 R. Distribution of softwood lumber in the Middle West, wholesale distribution: Studies of the lumber industry, pt. 8. 20¢.
- *116 R. Distribution of softwood lumber in the Middle West, retail distribution: Studies of the lumber industry, pt. 9. 15¢.
- *117 R. The substitution of other materials for wood: Studies of the lumber industry, pt. 11. 15¢.

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RICE

Farmers' Bulletins:

- 1092 F. Prairie rice culture. 5¢.
- 1195 F. Rice as food [with recipes]. 5¢.
- 1212 F. Straight head of rice and its control. 5¢.
- 1240 F. How to grow rice in Sacramento Valley. 5¢.
- 1420 F. Handling rough rice to produce high grades. 5¢.
- 1543 F. Insects injurious to the rice crop. 5¢.

Department Bulletins:

- 570 D. By-products of rice milling. 5¢.
- *1116 D. Seedling blight and stack burn of rice and hotwater seed treatment. 10¢.
- *1127 D. Some new varieties of rice. 10¢.
- *1155 D. Rice experiments at the Biggs Rice Field Station in California. 10¢.
- *1356 D. Experiments in rice production in southwestern Louisiana. 10¢.
- 1387 D. Experiments in rice culture at Biggs Rice Field Station in California. 10¢.

Department Circulars:

- *133 DC. United States grades for milled rice. 5¢.

Circulars:

- 48 C. Improved apparatus and method for making shellings of rough rice. 10¢.

Yearbook Separates:

- *955 Y. Soy-bean rotation increases rice yields greatly. 5¢.

ROADS AND BRIDGES

Department Bulletins:

- 105 D. Progress reports of experiments in dust prevention and road preservation, 1913. 5¢.
- *136 D. Highway bonds, compilation of data, and analysis of economic features affecting construction and maintenance of highways financed by bond issues and theory of highway bond calculations. 20¢.
- *246 D. Vitrified brick pavements for country roads. 10¢.
- *249 D. Portland cement concrete pavements for country roads. 15¢.
- *257 D. Progress reports of dust prevention and road preservation. 1914. 10¢.
- *314 D. Methods for examination of bituminous road materials. 10¢.
- *347 D. Methods for determination of properties of road-building rock. 10¢.
- *370 D. Results of physical tests of road-building rock. 15¢.
- *388 D. Public road mileage and revenues, New England States, 1914. 10¢.
- *407 D. Progress reports of experiments in dust prevention and road preservation, 1915. 10¢.
- 463 D. Earth, sand-clay, and gravel roads. 15¢.
- *532 D. Expansion and contraction of concrete and concrete roads. 10¢.
- *583 D. Report on experimental convict road camp, Fulton County, Ga. 25¢.
- *660 D. Highway cost keeping. 10¢.
- *670 D. Results of physical tests of road building rocks in 1916 and 1917. 5¢.
- *691 D. Typical specifications for bituminous road materials. 10¢.
- *1077 D. Portland cement concrete roads. 15¢.
- 1216 D. Tentative standard methods of sampling and testing highway materials, adopted by American Association of State Highway Officials, and approved by Secretary of Agriculture for use in connection with Federal-aid road construction. Revised 1928. 30¢.
- 1259 D. Standard specifications for steel highway bridges, adopted by American Association of State Highway Officials and approved by Secretary of Agriculture for use in Federal-aid road work. 10¢.
- 1279 D. Rural highway mileage, income and expenditures, 1921 and 1922. 15¢.
- 1486 D. Highway bridge location. 15¢.

Technical Bulletins:

- 55 T. Highway bridge surveys. 20¢.

Department Circular:

- 331 DC. Standard specifications for corrugated metal pipe culverts, adopted by American Association of State Highway Officials and approved by Secretary of Agriculture for use in connection with Federal-aid road work. 5¢.

Secretary's Office Circulars:

- *59 SC. Automobile regulations, licenses, and revenues in United States, 1915. 5¢.
- *63 SC. State highway mileage and expenditures, 1915. 5¢.
- *65 SC. Rules and regulations of Secretary of Agriculture for carrying out Federal-aid road act. Revised March, 1919. 5¢.

Secretary's Office Circulars—Continued.

- *72 SC. Width of wagon tires for roads on earth and gravel roads. 5¢.
- *74 SC. State highway mileage and expenditures, 1916. 5¢.
- 161 SC. Rules and regulations of Secretary of Agriculture for carrying out the Federal highway act and amendments thereto, except the provisions relative to forest roads. 5¢.

Miscellaneous Circulars:

- 62 MC. Standards governing plans, specifications, contract forms, and estimates for Federal-aid highway projects, as provided in rules and regulations for carrying out Federal highway act and amendments thereto, (except its provisions relative to forest roads), approved by Secretary of Agriculture and containing standards of practice for plans and specifications adopted by American Association of State Highway Officials. 5¢.

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- *1286 D. South American leaf disease of Para rubber. 10¢.
- 1380 D. Pathological survey of the Para rubber tree (*Hevea brasiliensis*) in Amazon Valley. 50¢.
- 1422 D. Hevea rubber tree in Amazon Valley. 15¢.

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- 65 T. Experimental tapping of Hevea rubber trees at Bayeux, Haiti, 1924-25. 5¢.

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 *56 C. Methods for determining hydrogen-ion concentration of soils. 5¢.

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- 950 Y. Alkali in irrigated districts. 5¢.
 *965 Y. Experiment stations promote soil betterment. 5¢.
 1002 Y. Crotalaria pays in soil improvement on sandy southern land. 5¢.

LIST OF AVAILABLE SOIL SURVEYS

Arranged alphabetically by States and Counties

(Where not specified, the price is 15¢)

The majority of the edition of each report is distributed by the United States Senators and Representatives from the areas surveyed; a limited number are available for distribution by the Bureau of Soils, United States Department of Agriculture. Editions are inadequate to meet the demand and therefore reports of not more than three separate areas and not to exceed one copy of each report may be sent free to one individual. The price at which these reports may be purchased is indicated, and if more than three reports are desired the request together with the necessary sum should be forwarded to the Superintendent of Documents, Government Printing Office.

Many counties not listed have been surveyed, but both the free and sale stocks are entirely exhausted. They may be consulted in public libraries which keep a file of all soil surveys.

Beginning with the 1923 series, soil survey reports will be issued separately. These reports of the individual areas will be sent to libraries as soon as they are available and should be filed, preserved, and ultimately bound to take the place of the bound volumes of the field operations which have previously been supplied by the department, and which were discontinued with the edition of 1922. The reports for each year will be consecutively numbered, the last report for a particular year bearing the conspicuous notice: "This number is the final and last soil survey for the year 192-."

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- *Series of educational charts for schools consisting of one chart each:
Light breeds of horses, draft breeds of horses, dual-purpose breeds of cattle, general-purpose breeds of chickens, meat breeds of chickens, egg breeds of chickens, comparison of bacon and lard type of hogs, breeds of sheep, cotton-producing areas and distributing centers, the cotton plant, cotton production, pests and diseases of cotton, cotton improvement, ginning and marketing cotton, four small grains, production of small grains, pests of small grains, harvesting small grains, grain marketing, the corn crop, corn and corn plants, seed corn, corn production. 1¢ each. Group consisting of two charts each; dairy breeds of cattle, beef breeds of cattle, breeds of hogs, harvesting corn. 1¢ each.
- *Four charts showing wholesale and retail cut of beef, veal, lamb, and fresh pork. 50¢ per set.
- *Photographs of plants, animals, insects, and other subjects like or similar to illustrations in department publications. Office of Information, United States Department of Agriculture, 5 by 7, 9¢, 6½ by 8½, 12¢, 8 by 10, 18¢, enlargements more.
- *Colored posters "Prevent Forest Fires—It Pays," shows against a red background the blackened remains of forest trees after fire has passed through. Single copies 5¢.
- *Colored posters, "Everybody Loses When Timber Burns," shows against a red background the blackened tree trunks left by a forest fire. Single copies 5¢.
- *Colored poster, "Fire—The Outlaw, Don't Turn Him Loose," shows a large red wolf on a black background with a fringe of burned trees. Single copies 5¢.

FOR FREE DISTRIBUTION

- Pictures of improved livestock: (1) Judging dairy cows at a community picnic; (2) Purebred Percheron stallion; (3) Southdown sheep for mutton production; (4) Little pigs (5) Flock of White Wyandottes; (6) Herd of (7) Angora goats; (8) Morgan horse; (9) Club boy with beef cattle; (10) Mules.
- Posters showing insect pests and their work and method of control; (1) Grasshopper; (2) Potato Beetle; (3) Wheat Joint Worm; (4) Chalis-fly; (5) Hessian fly; (6) Spray Potato Fields.
- Colored poster showing life cycles of black stem rust and its host plants wheat and common barberry.
- Colored poster of white pine blister rust for schools in white pine States, New England, New Jersey, New York, Pennsylvania, Michigan, Wisconsin, Minnesota.
- Information series from the Bureau of Public Roads. Drawings and mimeographed pamphlets describing the methods of building various types of farm structures and conveniences such as windmills, electric lighting plants, other lighting systems, well-drilling machinery, garbage and refuse disposal, clearing land, and farm buildings of various kinds.
- Desk size map showing the Federal-aid highway system and progress in its improvement for the entire United States.
- A series of maps is now being issued showing the condition of improvement of the system in various groups of States. Some are now available while others are in course of preparation.
- Colored charts showing United States standards and grades for eggs. This brings out differences in egg equality as seen before the candle.
- Small map (in colors) showing national forests and related reservations in United States.
- Small map, showing in green the natural forest regions of the United States.
- Colored poster, "Pines Pay," prepared for distribution in the South, shows the interior of a long-leaf pine forest.
- Colored poster, "Pines Pay," prepared for distribution in the North, shows the interior of white pine forest.
- Set of colored lantern slides accompanied by lecture outlines and covering 14 subjects.
- Traveling school exhibits, "Our Forests, What They Mean to Us." (Sets of 48 enlarged photographs showing forests of the United States, how they are used and how they may be preserved; 12 series of 4 pictures each.)
- Traveling school exhibits, "Forestry in Nature Study." (Sets of 48 enlarged photographs suitable for use in nature-study work; 12 series of 4 pictures each.)
- Traveling school exhibits, "Farm Woodlands." (Set of 28 enlarged photographs on management of farm woodlands; 7 series of 4 pictures each.)
- Traveling school exhibits, "Commercially Important Woods of the United States." (Sets of 28 maps and charts showing samples of important commercial woods and related information; 7 series of 4 maps or charts each.)
- Set of wood samples, showing 30 representative American woods prepared for educational purposes and loaned to teachers for short periods.

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Exhibit material of a general nature is available for the use of high schools and colleges, in the form of colored panels, both large and small, dealing with woodland improvement, forest fires, lumbering, the use of the national forests, and studies of long-leaf, short-leaf, loblolly, slash, Norway, and white pines.

Colored bromides and transparencies on turpentine, planting, second growth, forest-fire equipment, scenery, forest fires, erosion, denuded areas, and slogans for care with fire.

This material is loaned to any who are willing to pay transportation charges. Since in most cases it is heavier than the traveling exhibits, the transportation costs are greater. Lists giving size and approximate weights will be furnished on request by the Forest Service, United States Department of Agriculture.

WEATHER

Farmers' Bulletins:

1538 F. Frost and the prevention of frost damage. 10¢.

Miscellaneous Circulars:

81 M. C. Relations between crop yields and precipitation in Great Plains area. 30¢.

Yearbook Separates:

*918 Y. Weather and agriculture. 20¢.

Miscellaneous:

*Relation between precipitation over watershed of Ohio River above and streamflow at Cincinnati. Weather Bul. 40. 15¢.

*Forecasting frost in North Pacific States. Weather Bul. 41. 10¢.

*Weather forecasting, with introductory notes on atmospheric. Weather Bul. 42. 5¢.

*Climate of San Francisco. Weather Bul. 44. 5¢.

*Instructions for obtaining and tabulating records from recording instruments. Weather Cir. A. 10¢.

*Instructions for cooperative observers. Weather Cir. B and C. 10¢.

*Instructions for installation and maintenance of wind measuring and recording apparatus. Weather Cir. D. 15¢.

*Instructions for wiring meteorological instruments. Appendix 2, Weather Cir. D. 15¢.

*Measurements of precipitation. Weather Cir. E. 5¢.

*Barometers and measurement of atmospheric pressure. Weather Cir. F. 15¢.

*Care and management of electrical sunshine recorders. Weather Cir. G. 5¢.

*Instructions for erecting and using Weather Bureau Nephoscope, 1919 pattern. Weather Cir. I. 10¢.

*Instructions for installation and maintenance of Marvin water stage registers with specifications. Weather Cir. J. 10¢.

*Instructions for installation and operation of class A evaporation stations. Weather Cir. L. 10¢.

*Instructions to marine meteorological observers. Weather Cir. M. 15¢.

*Psychrometric tables for obtaining the vapor pressure, relative humidity, and temperature of the dew point. W. B. 235. 10¢.

*Same, abridged separates, pressure 23, 25, 27, 29, and 30 inches. 5¢.

*Summaries of climatological data for United States by sections, 106 separate parts, each based on data from the beginning of observations to end of 1920. Weather Bul. W. 5¢ for each part; \$3 for set.

*Relative humidities and vapor pressures over the United States, including discussion of data from recording hair hygrometers. Weather Review Sup. 6. 25¢.

*Periodical events and natural law as guides to agricultural research and practice. Weather Review Sup. 9. 25¢.

*Predicting minimum temperatures from hygrometric data. Weather Review Sup. 16. 25¢.

*Stream-flow experiment at Wagon Wheel Gap, Colo. Weather Review Sup. 17. 25¢.

*Bibliography of the climate of South America. Weather Review Sup. 18. 15¢.

*An aerological survey of the United States. Weather Review Sup. 26. 20¢.

*Preparation and significance of free-air pressure maps for Central and Eastern United States. Weather Review Sup. 21. 25¢.

*Spring floods of 1922. Weather Review Sup. 22. 25¢.

*Temperature of Mexico. Weather Review Sup. 23. 25¢.

*West Indian hurricanes and other tropical cyclones of the North Atlantic Ocean. Weather Review Sup. 24. 25¢.

*Normals of daily temperature for United States. Weather Review Sup. 25. 20¢.

*An aerological survey of the United States. Part II. Weather Review Sup. 26. 20¢.

*Aerology Nos. 2, 4, 5, 6, 7, 8, 9, and 10. Weather Review Sup. Nos. 5, 8, 10, 11, 12, 13, 14, and 15, respectively. 25¢ each.

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Miscellaneous—Continued.

- *River stages at river-gage stations on principal rivers of the United States, 1919. Volume 17. 50¢.
- *Same for 1920. Volume 18. 25¢.
- *Same for 1921. Volume 19. 40¢.
- *Same for 1922. Volume 20. 40¢.
- *Same for 1923. Volume 21. 35¢.
- *Same for 1924. Volume 22. 35¢.
- *Same for 1925. Volume 23. 50¢.
- *Same for 1926. Volume 24. 50¢.
- *Same for 1927. Volume 25. 35¢.
- *Annual report of Weather Bureau containing summary of meteorological data from Weather Bureau stations, (buckram), \$1.
- *Weather forecasting in the United States. \$1.25.
- *Cloud forms; 12 half-tone plates 20 by 26 inches. 5¢.
- *Cloud forms, descriptive pamphlet with half-tone plates. 25¢.
- *Instructions for making pilot balloon observations. 1923. 66 pages. illus. Weather Bureau, Aerological Division. Circular O. 20¢.
- *Climatological data for northern and western tropical South America, 1928. 21 pages, illus. Weather Review Sup. 31. 10¢.
- *Climatological data for tropical islands of Pacific Ocean, (Oceania). 1927. 22 pages. illus. Weather Review Sup. 28. 10¢.
- *Frost and temperature conditions in cranberry marshes of Wisconsin, 1910. Weather Bul. T. 20¢.
- *Floods of Spring of 1903 in Mississippi watershed. Weather Bul. M. \$1.60.
- *Thermal Belts and Fruit Growing in North Carolina. Weather Review Sup. 19. 50¢.
- *Weather Bureau, work of. 1926. 5¢.

WEEDS**Farmers' Bulletins:**

- 690 F. Weeds, how to control them. 5¢.
- 687 F. Eradication of ferns from pasture lands in eastern United States. 5¢.
- 1002 F. Canada thistle and methods of eradication. 5¢.
- 1161 F. Dodder. 5¢.
- 1307 F. Quack grass. 5¢.
- 1537 F. Johnson grass as a weed. 5¢.
- 1544 F. Common barberry and black stem rust. 5¢.

Department Bulletins:

- *1316 D. Some effects of sodium arsenite when used to kill the common barberry. 10¢.
- 1451 D. Methods of eradicating the common barberry. 20¢.

Department Circulars:

- *108 DC. Chicory, control and eradication. 5¢.
- *130 DC. Hawkweed, or paintbrushes. 5¢.
- *165 DC. Lawn pennywort, new weed. 5¢.
- *188 DC. Progress of barberry eradication. 10¢.
- *268 DC. Kill the common barberry with chemicals. 5¢.
- 269 DC. Barberry eradication prevents black rust in western Europe. 5¢.
- *332 DC. Chemical eradication of common barberry. 5¢.
- 356 DC. Common barberry and how to kill it. 5¢.

Miscellaneous Publications:

- 7 MP. Bread or barberries. 5¢.

Yearbook Separates:

- 999 Y. Barberry eradication reducing stem rust losses in wide areas. 5¢.
- 1019 Y. Weed control aided by research at experiment stations. 5¢.

WHEAT**Farmers' Bulletins:**

- 596 F. Culture of winter wheat in Eastern United States. 5¢.
- 678 F. Growing hard spring wheat. 5¢.
- 885 F. Wheat growing in Southeastern States. 5¢.
- 1041 F. Eelworm diseases of wheat and its control. 5¢.
- 1168 F. Varieties of winter wheat adapted to eastern United States. 5¢.
- 1224 F. Wheat-scab and its control. 5¢.
- 1281 F. Hard red spring wheats. 5¢.
- 1301 F. Common white wheats. 5¢.
- 1303 F. Club wheats. 5¢.
- 1304 F. Durum wheats. 5¢.
- 1305 F. Soft red winter wheats. 5¢.
- 1323 F. Wheat strawworm and its control. 5¢.
- 1340 F. Polish and poulard wheats. 5¢.
- 1414 F. Rosette disease of wheat and its control. 5¢.

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Department Bulletins:

- *328 D. Milling and baking tests of wheat containing admixtures of rye, corn, cockle, kingshead, and vetch. 10¢.
- *357 D. Alaska and Stoner, or "miracle," wheats. 5¢.
- *400 D. Experiments with Marquis wheat. 10¢.
- *450 D. Improvement of Ghirka spring wheat in yield and quality. 5¢.
- *455 D. Drying for milling purposes of damp and garlicky wheat. 5¢.
- *478 D. Origin, characteristics, and quality of humpback wheat. 5¢.
- *514 D. Wheat, yields per acre and prices, by States, 50 years, 1866-1915. 5¢.
- 522 D. Characteristics and quality of Montana-grown wheat. 10¢.
- *557 D. Comparison of several classes of American wheats and considerations of some factors influencing quality. 5¢.
- *594 D. Geography of wheat prices, summary of conditions affecting farm prices of wheat. 20¢.
- *618 D. Experiments with durum wheat. 10¢.
- 734 D. Nematode galls as factor in marketing and milling wheat. 5¢.
- *842 D. Nematode disease of wheat caused by *Tylenchus tritici*. 20¢.
- *877 D. Australian wheat varieties in the Pacific coast area. 10¢.
- *878 D. Varietal experiments with spring wheat on the northern Great Plains. 15¢.
- *1004 D. Use of water by spring wheat on Great Plains. 10¢.
- *1046 D. Rust resistance in winter wheat varieties. 20¢.
- *1094 D. Method of winter-wheat production at Fort Hays branch station. 5¢.
- *1137 D. Symptoms of wheat rosette compared with those produced by certain insects. 5¢.
- 1139 D. Storage of water in soil and its utilization by spring wheat. 5¢.
- *1173 D. Experiments in wheat production on the dry lands of western United States. 10¢.
- 1183 D. Milling and baking experiments with American wheat varieties. 15¢.
- 1192 D. Improvement of Kubanka durum wheat by pure-lime selection. 5¢.
- 1198 D. Cost of producing winter wheat in central Great Plains of United States. 10¢.
- *1239 D. Studies in physiology and control of bunt, or stinking smut of wheat. 10¢.
- *1276 D. Varietal experiments with hard red winter wheats in dry areas of western United States. 10¢.
- *1299 D. Relative resistance of wheat to bunt in Pacific Coast States. 5¢.
- 1347 D. Foot-rot diseases of wheat in America. 10¢.
- *1361 D. Mosaic disease of winter wheat and winter rye. 5¢.
- 1403 D. Segregation and correlated inheritance in Marquis and Hard Federation crosses, with factors for yield and quality of spring wheat in Montana. 15¢.
- 1420 D. Relation of kernal texture to physical characteristics, milling, baking qualities, and chemical composition of wheat. 5¢.
- 1446 D. Cost of producing winter wheat and incomes from wheat farming in Sherman County, Oreg. 10¢.
- *1460 D. Testing wheat for protein with recommended method for making the test. 5¢.

Technical Bulletins:

- 6 TB. Heat-damaged wheat. 10¢.
- 38 TB. Rate and date of seeding and seed bed preparation for winter wheat at Arlington Experiment Farm. 5¢.
- 39 TB. Inheritance of awniness, yield, and quality in crosses between Bobs, Hard Federation, and Propo wheats, at Davis, Calif. 10¢.

Department Circulars:

- *186 DC. Occurrence of wheat downy mildew in United States, with list of literature cited. 5¢.
- *194 DC. Kanred wheat. 5¢.
- *273 DC. Flag smut of wheat. 5¢.
- *280 DC. Kota wheat. 5¢.
- *305 DC. Electrochemical treatment of seed wheat. 5¢.
- 365 DC. Relative susceptibility of spring-wheat varieties to stem rust. 5¢.
- 378 DC. Comparative hardness of winter-wheat varieties. 5¢.
- *394 DC. Copper carbonate prevents bunt (stinking smut) of wheat. 5¢.
- 424 DC. Further studies on flag smut of wheat. 5¢.

Miscellaneous Circulars:

- *95 MC. Unclean seed wheat causes loss of millions; to control losses clean all seed wheat. 5¢.
- 108 MC. Copper carbonate seed treatment for stinking smut of wheat. 5¢.

Leaflets:

- 33 L. The combination cleaning and treating of seed wheat. 5¢.

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Yearbook Separates:

- *649 Y. Hard wheats winning their way. 10¢.
- 752 Y. World's supply of wheat. 5¢.
- *803 Y. Farm practices in growing wheat. 10¢.
- *846 Y. Cost of a bushel of wheat. 5¢.
- *873 Y. Wheat production and marketing. 10¢.
- *951 Y. Barberry eradication in wheat areas. 5¢.
- *956 Y. Wheat varieties for western United States. 5¢.
- *957 Y. Wheat breeding for resistance to leaf rust. 5¢.
- *959 Y. Wheat mosaic control through immune strains. 5¢.
- *963 Y. Wheats highly resistant to loose smut. 5¢.
- *964 Y. Wheat varieties resistant to stinking smut. 5¢.

YEARBOOK

Distribution of the greater number of Yearbooks is controlled by Members of Congress. Apply either to your Senator or Representative in Congress or to the United States Department of Agriculture. However, the Department's edition is barely sufficient to supply its employees and cooperators. On June 1, 1929, copies were available for the following years. Those indicated by a star are for sale only.

*1895.....	\$0.55	*1914.....	\$0.75
*1897.....	.60	*1915.....	.75
*1899.....	.75	*1916.....	1.00
*1900.....	.75	*1917.....	1.00
*1901.....	.80	*1918.....	.85
*1902.....	.85	*1919.....	1.00
*1903.....	.75	*1920.....	1.25
*1906.....	1.00	*1921.....	1.25
*1907.....	1.00	*1922.....	1.25
*1908.....	1.25	*1923.....	1.25
*1909.....	1.00	*1924.....	1.50
*1910.....	1.00	*1925.....	1.50
*1911.....	1.00	1926.....	1.50
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